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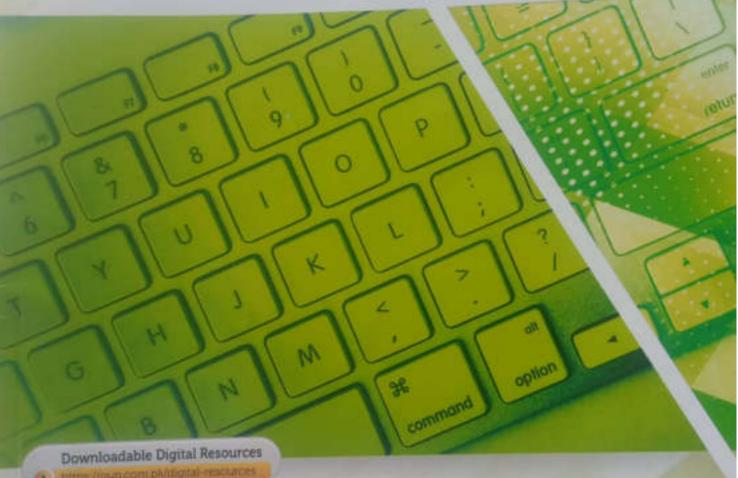
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KEYBOARD

Computer Science With Application Software

THIRD EDITION







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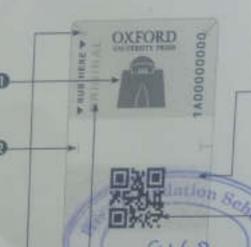
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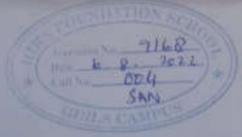


KEYBOARD

Computer Science With Application Software

THIRD EDITION





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Published in Pakistan by Oxford University Press No.38, Sector 15, Korangi Industrial Area, PO Box 8214, Karachi-74900, Pakistan

Oxford University Press 2009, 2014, 2019

The moral rights of the authors have been asserted

First Edition published in India in 2009
First Edition adapted and published in Pakistan in 2009
Second Edition published in India in 2013
Second Edition adapted and published in Pakistan in 2014
Third Edition published in India in 2013
Third Edition adapted and published in Pakistan in 2019

Keyboard, Windows 7: Windows 7 and MS Office 2013 (Student Book 3 and online content) was originally published in English in 2014 by Oxford University Press India, 2/11 Ansari Road, Daryaganj, New Delhi 110 002, India, through its office at World Trade Tower, C-1, 12th Ploor, Sector 16, Nolda, Utrar Pradesh, India with the ISBNs 978-0-19-945150-0 and 978-0-19-945208-8.

This adaptation is published by arrangement. Oxford University Press Pakistan is solely responsible for this adaptation from the original work.

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ISBN 978-0-19-940933-7-

Fifth Impression 2022

Printed on Jugan offset paper

Printed by GC

Arknowledgements
Written by Sangeeta Panchal and Alka Sabharwal
Illustrations by Mammoth Designs and Creative Concept

preface

Keyboard: Computer Science with Application Software (Third Edition); a series of eight books for Classes 1 to 8; is a concerted effort to impart knowledge about computers using an interactive approach. Computer science is a fascinating and wideranging subject with limitless opportunities for creativity and application. Today computers influence every facet of our lives. In the highly competitive world we live in, a basic working knowledge of computers is essential for success. There is, therefore, a great desire to introduce computer education to children at an early age. There should also be enough room for them to explore and create on their own.

This series introduces the subject in language that is simple and direct. Technical vocabulary is introduced where necessary and all such terms are defined at the end of each chapter. Comic strips, icons, engaging characters, and illustrations make the learning process an enjoyable experience.

The content is based on extensive feedback from teachers, and on the latest trends in computer education. Particular care has been taken to update facts and figures, and to include information about the latest devices in the market.

The focus of Books 1 to 5 is on learning the basics of computer science; on understanding MS Office 2013 and using KTurtle, as a programming language.

Books 6 to 8 move beyond elementary concepts and introduce Publisher 2013 (Flash Version CS3), HTML 5, Dreamweaver (Version CS3), Photoshop (CS3), Microsoft Small Basic, and Visual Basic (Version Microsoft Visual Basic 2013 Express). This edition also gives them the potential opportunity for hands-on experience of sound and video editing through the programmes, Audacity and Lightworks.

With a strong emphasis on developing 21" century computer skills: critical thinking, communication, collaboration, and creativity—this edition of Keyboard: Computer Science with Application Software will prove to be invaluable for students and teachers.

Key Features

tach chapter in this book is introduced through two delightful characters, Goggle and Toggle.

Hill am Goggle My friend. Toggle and I will accompany you into the world of computers.





The key features in this series can be broadly divided into:

- LEARNING TEXTS
- ASSESSMENT TOOLS
- FOR TEACHERS the course includes teacher's notes within the Student's Books, comprehensive Teaching Guides, and an exciting new downloadable digital resources.

Learning Tools

Fast Forward provides keyboard shortcuts for menu commands to help users save time while performing routine coerations.

Fast Forward

Font dising how Ctrl + D

Top Tip gives students useful tips on the options available for different operations.

Top Tip

Starter images are hockgrounds with outlines of images, or 3D phocographs. that you can use in Tux Pant.

Did You Know! provides interesting information on the topic being covered.

Did you Know?

One point equals 1/72* of an inch.

Practice Time included after every major topic, provides situational exercises along with their solutions to reinforce learning.

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Assessment Tools

contain both objective and descriptive questions.

excorages audents to collaborate and exchange



challenges students to apply the concepts

unit-based and conforming to the continuous

Computer Manners

presents computer edquetre in a child-friendly manner using





Memory Bytes

q-ck respinished of all the motion in that chapter

FOR TEACHERS

· The downloadable teaching resource is an exciting new digital teaching aid that offers reinforcement and assessment materials.



The Test Generator is an innovative. easy-to-use assessment tool. It has been designed to aid teachers in creating a variety of test papers from an extensive pool of questions for effective evaluation.

The course is also supported by:

- (a) Teacher's Notes within the Student's Books that provide important information and suggestions on creative approaches to a chapter or a topic.
- (b) Teaching Guides that include lesson plans, the complete answer key to the Student's Books, worksheets, and test papers.

Tricky Terms at the

end of each chapter provides a list of important terms along with their definitions for easy

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Operating System





An operating system is a very important part of a computer. Before we talk about the operating system, let us understand what a computer is made up of.

WHAT IS A COMPUTER MADE UP OF?

A computer is made up of hardware and software.

Hardware refers to the parts of a computer that you can touch or feel. The CPU, monitor, keyboard,

mouse, printer, scanner, and microphone are examples of computer hardware. Input devices, the processing unit, storage devices, and output devices are all examples of computer hardware.

Software refers to a set of programs (a set of instructions given to a computer) that performs some tasks in a computer. Some of the popular software are MS Windows, MS Office, KTurtle, Adobe Flash, and Adobe Photoshop. When you start your computer, the operating system software also starts with it.

In this Chapter

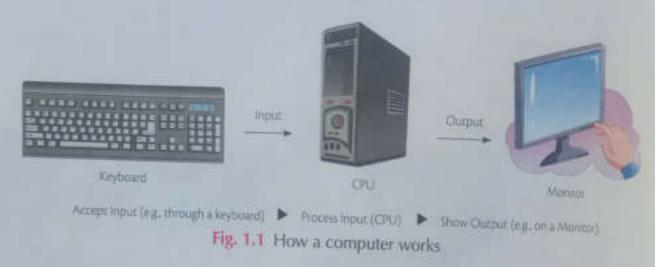
- What is a Computer made of?
- Operating System
- Types of Operating Systems
- Desktop and Icons.

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OPERATING SYSTEM

An operating system is a program that helps the computer hardware to work with other computer software. It helps a user to get an output from the computer. A computer is of no use without an operating system.

There are three steps to how a computer works (Fig 1.1).



Different kinds of software take inputs from the user, pass them on to the CPU for processing, and then help to display the result or output. An operating system helps to make this exchange of input and output among the input device, the software, the CPU, and the output device possible.

TYPES OF OPERATING SYSTEMS

There are two types of operating systems—single-user and multi-user.

Single-User Operating System

A single-user operating system allows only one user to work on it at a time.

A few examples are Windows XP, Mac OS (Macintosh Operating System), Windows 7, Windows 8, etc. Single-user operating systems are usually meant for home use.

Multi-User Operating System

A multi-user operating system allows many people to use the same computer at the same time or at different times. Therefore, this main computer is attached to many other computers. A few examples of such an operating system are Windows Server 2012, UNIX, Linux, etc. Multi-user operating systems are used in offices and big organisations like hospitals and railway stations.

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microsoft Windows

Microsoft Windows is one of the most popular operating systems. When you switch on a computer, the Windows operating system gets loaded into the computer memory automatically. While loading, the picture of the Windows flag appears on the screen (Fig. 1.2). A few seconds later, a welcome message appears (Fig. 1.3).

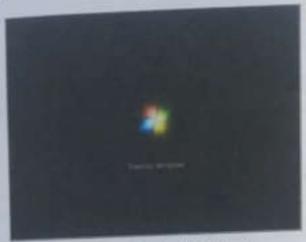


Fig. 1.2 Starting Windows



Fig. 1.3 Welcome message

DESKTOP AND ICONS

Shortly after the Windows welcome message appears, you will see a screen (similar to the screen given alongside) on the monitor with many small pictures on it. This screen is called the desktop and the small pictures are called icons (Fig. 1.4)



Fig. 1.4 Desktop with icons

Icons on the Desktop

The icons on the desktop may represent a file, a folder, or a program (or software). By double-clicking these icons, you can open them.



(b) A folder



(c) A Program

Fig. 1.5 Icons on a desktop

Figures 1.5(a), (b), and (c) show a Word file titled 'Magic World', a folder titled 'images', and the Word 2013 program, respectively.

Files and Folders

Any piece of information stored in the computer is in the form of a file. A file in Window is similar to a file used by you to store test papers, your certificates, and many other things. A file can contain data, programs, etc. There are different types of files like sound files, movie files, and document files.

Each file is represented by a different icon. Each file can also be given a name that is useful to identify the file; this is known as its file name.

A folder is used to store a group of files. The icon for a folder is which looks like a folder used for keeping papers. A folder can also contain other folders in it.

Taskbar

The taskbar is a long, horizontal bar at the bottom of the screen. It contains buttons with icons, which tell us what programs are open on the computer. For example, if the Adobe Photoshop, Adobe Reader, and Word 2013 programs are open, then the taskbar would appear as shown in Fig. 1.6.

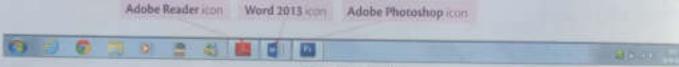


Fig. 1.6 Taskbar

Changing the Position of the Taskbar

You can change or move the position of the taskbar to any of the four sides on the screen

Step 1: Move the mouse pointer to an empty space on the taskbar.

Step 2: Click and hold the mouse button.

Step 3: Drag the mouse pointer to the right of the computer screen.

Step 4: Release the mouse button.

The taskbar would have moved to the right of the computer screen (Fig. 1.7).

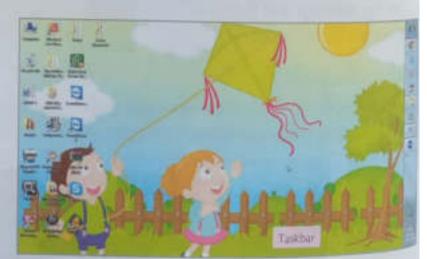


Fig. 1.7 Taskbar moved to the right side of the computer screen

Top Tip

If the taskbar is not moving, it may be locked

To unlock the taskbar, follow the steps:

Step 1: Right-click an empty space on the taskbar, a context menu appears.

Step 2: Click Lock the taskbar check mark, so that the check mark disappears.

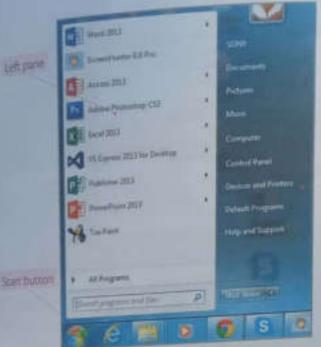


Fig. 1.8 Start menu

Start Button

You will see the Start button at the left corner of the taskbar (Fig. 1.8). It helps you open any program on your computer. Clicking the Start button displays a menu called the Start menu.

Right paive

Fast Forward

To open the Start menu, press the Windows logo key on the keyboard.

TID

Recently opened files:

The Start menu is divided into two panes the left pane and the right pane.

Left Pane of the Start Menu

- It shows a list of recently opened programs.
 Some of the programs have an ➤ symbol.
- Moving the mouse pointer to any of these symbols displays the recently opened files in that program (Fig. 1.9).
- Clicking All Programs displays the complete list of programs in alphabetical order followed by a list of folders, each of which may have more programs.

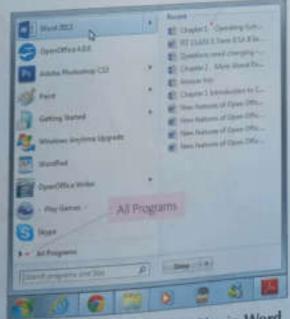


Fig. 1.9 Recently opened files in Word 2013

- Click, for example, Accessories. A list of programs in the folder appears. Click on any program to open it (Fig. 1.10).
- To get back to the programs you saw when you first opened the Start menu, click Back near the bottom of the menu.
- At the bottom of the left pane is the Search box (Fig. 1.10), which allows you to search for programs and files on your computer.

Right Pane of the Start Menu

The right pane provides access to commonly used folders, files, settings, and features. This is also the place from where you can turn off your computer by clicking the **Shut down** button.

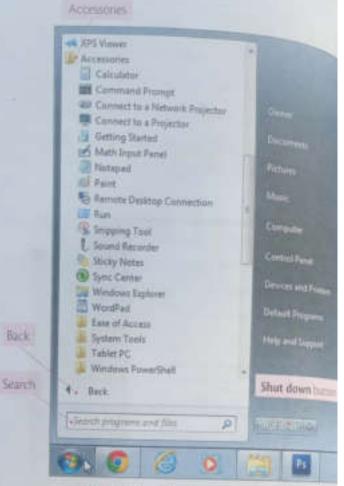


Fig. 1.10 List of programs in the Accessories folder

Computer Manners





Do not use a wet cloth to clean the monitor or any other part of the computer. Always use a clean, dry cloth to wipe off dust or dirt from any part of the computer.

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Local difficulty is



Tricky Terms

that ---

Hardware Hardware refers to the parts of a computer that you can touch or feel.

Software Software refers to a set of programs (a set of instructions given to a computer) that perform some tasks in a computer.

Operating system a software that helps the computer hardware to work along with other computer software Desktop the screen that appears after loading the Windows operating system lcons small pictures on the desktop

File used to store any piece of information

Folder used to store a group of files

Taskbar the long horizontal bar at the bottom of the screen



Memory Bytes



- An operating system is a software that helps the user to work with the computer.
- Single-user operating systems are generally used at homes.
- Multi-user operating systems are used in offices and big organisations like banks and railway stations.
- Microsoft Windows is one of the most popular operating systems.

- Files, folders, or programs on the desktop can be opened by double-clicking them.
- The taskbar is the horizontal bar at the bottom of the desktop which has buttons and icons of programs open on the computer.
- The Start button, at the left corner of the taskbar, helps you open any program on your computer.

€ EHERCISES



Objective Type Questions

1. Fill in the blanks with the correct words.

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Choose the correct option.

- a. This software gets automatically loaded into the computer's memory when the computer is switched on.
- L. Operating system ii. Desktop b. Which of the following is a multi-user operating system?
 - i. UNIX
 - iii. both (a) and (b) ii. Windows 8
- c. The Start menu is divided into how many panes?
 - i. One H. Two
- iii. Three

iii. Taskbar

Iv. Four

- d. A folder can contain
 - i. Folder(s) ii. File(s)
- iii. both (i) and (ii)
- iv. none of these

iv. none of these

iv. none of these

e. Double-clicking the mouse button can open any program on the desktoo

II. Left

- iii. both (i) and (ii)
- iv. none of these

Descriptive Type Questions

1. Answer the following.

i. Right

- a. What does the left pane of the Start menu show?
- b. What is the difference between hardware and software?
- c. How does an operating system help the computer to function?
- d. Describe the properties of a desktop.
- e. Why is it important to have different files and folders?
- f. Outline the steps required to change the position of a taskbar.
- g. Why might you not be able to move the taskbar? Offer a solution.
- h. List the steps you will take to access Word 2013,

Application-Based Questions

- a. Rahman's father has purchased a new computer to be used by Rahman at home.
 - i. Which type of operating system should he install—single-user or multi-user?
 - ii. Give one example of a popular operating system that he could install.

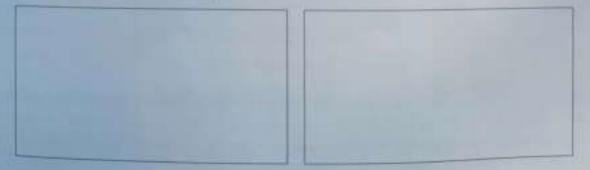
b. Observe the following figure and answer the questions given below:



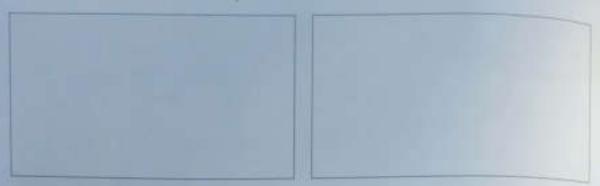
- i. Name any two folders shown in the figure.
- ii. Label the parts (i) and (ii) in the figure.



- 1. Find out which operating system is loaded on the computer:
 - a. in of your school's computer lab
 - b. at your home.
- 2. Look at the desktop of a computer and then draw:
 - a. any two icons on the desktop



b. icons of a folder and of the recycle bin



- Observe the desktop of your computer. Notice the position of the taskbar. Try to change is
 position of the taskbar and bring it back to the original position.
- 4. Get organised! Decide how you would like the icons to be displayed on your desktop. To rearranging them in alphabetical order. Try moving them all to the left, to the right, to the top, and to the bottom of the screen. Which do you think will work best for you?

GROUP PROJECT

- In groups of four, explore moving the taskbar to different sides of the screen. Which side of you prefer? (Check out the Top Tip on page 5 of this book, if your taskbar gets stuck.)
- In turns, open the Start menu and choose a program to open and close. There is so much to explore! (If you get stuck, page 5 of this book will help.)

TEACHER'S NOTES

- Students may be told very briefly about the operating systems loaded in your school's computable.
- Students may be given a practical demonstration on how to start programs on a computer using

 (a) the start menu (b) program icons on the desktop.

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more About Paint





Paint is a very simple drawing program. Do you remember what you learnt about Paint in Class 2? In this

Selection shapes

Enclangular selection

Erce-form selection

Selection options

Select git

Solect git

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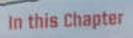
Fig. 2.1 Select tool

Jeansparent selection

chapter you will learn more about Paint and its commands.

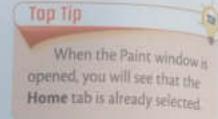
Let us first learn how to use the Select tool for selecting a part of a drawing.

- 1. Open the Paint window.
- Click the Home tab if it is not already selected.
- In the Image group on the Home tab, click the down arrow under the Select tool (Fig. 2.1). The menu that opens has the following choices:



- Moving and Copying Objects
- Undo and Redo
- Rotate/Flip a Drawing
- Resize a Drawing
- Skew a Drawing
- Set Drawing as a Desktop Background
- Zoom In and Out

- You can click Rectangular selection to select a rectangular area or click Free form selection to select a free-form area. Then drag the pointer to select a pant the drawing.
- . To select the whole picture, click Select all.
- To select everything in the picture except for the currently selected area, click Invert selection.
- · To delete the selected object, click Delete.



MOVING AND COPYING OBJECTS

You can move and copy objects using the options given below.

Cut and Paste

You can use the Cut option to cut the selected object and then paste it into another part of the drawing (Fig. 2.2). The steps are:

- 1. In the Image group on the Home tab, click Select.
- 2. Drag the mouse pointer to select the area of the drawing you want to cut.
- 3. In the Clipboard group, click Cut and then Paste.
- The selected part is pasted at the top-left corner of the drawing area. Notice that the object is still selected. Click and move it to the desired position (Fig. 2.3).

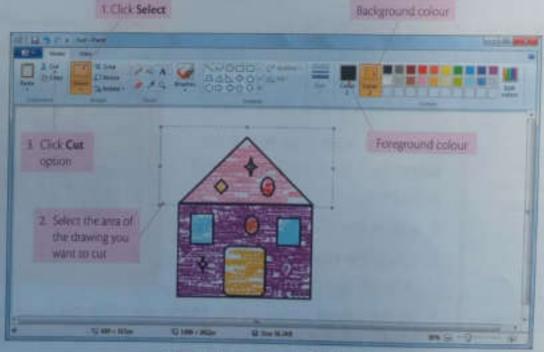


Fig. 2.2 Selecting the Cut option









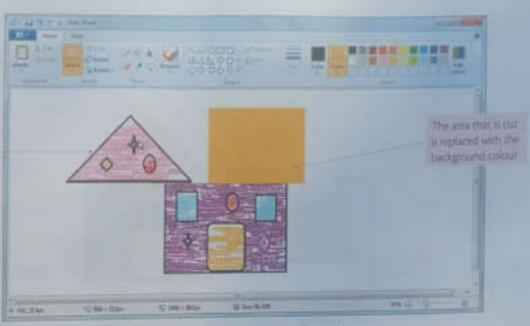


Fig. 2.3 Selecting the Paste option

Note: When you cut a selected part, the area that is cut is replaced with the background colour.

Copy and Paste

The Copy option (Fig. 2.4) is used to get a duplicate of the selected part of the drawing. The steps are:

1. In the Image group on the Home tab, click the Select option.

Drag the mouse pointer to select the drawing or a part of the drawing you want to copy.

- In the Clipboard group, click Copy.
- Now in the Clipboard group, click Paste.
- A copy of the selected part will be placed at the topleft corner of the drawing area (Fig. 2.5).
- Notice that the object is still selected. Click and move it to the desired position.

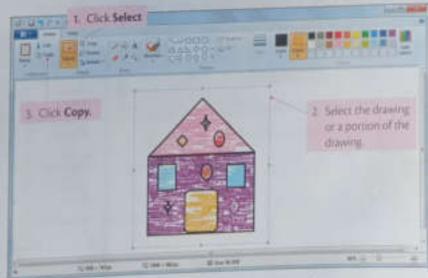


Fig. 2.4 Selecting the Copy option







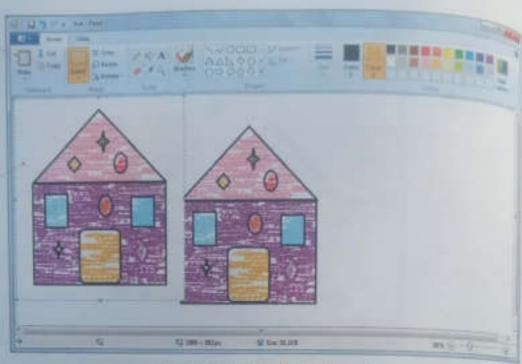


Fig. 2.5 Selecting the Paste option

Paste a Picture into Paint

You can also paste an existing picture file into Paint. The steps are:

- In the Clipboard group, click the down arrow under Paste and then click the Paste from option (Fig. 2.6).
- 2. The Paste From dialog box appears (Fig. 2.7).
- 3. Find the picture you want to paste into Paint.
- 4. Select the picture by clicking on it once and then click the **Open** button. After you paste the picture file, you can also change its size.

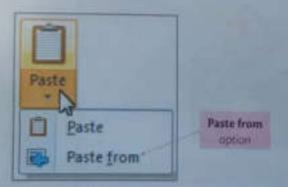
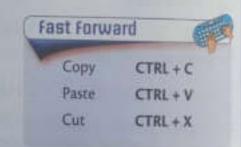


Fig. 2.6 Paste menu



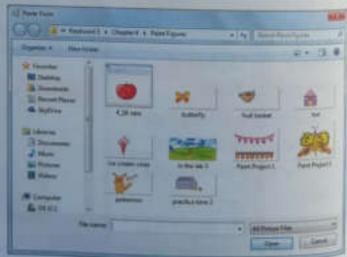


Fig. 2.7 Paste From dialog box

UNDO AND REDO

Undo and Redo buttons are available on the Quick Access
Toolbar at the top left corner of the window (Fig. 2.8). The
Undo command is used to reverse the last action performed,
while the Redo command is used to reverse the effect of
the Undo command.

ROTATE/FLIP A DRAWING

You can use the **Rotate** tool to change the angle of the whole, or a selected part, of the drawing. The steps are:

- 1. Select the drawing or a part of the drawing.
- 2. Click the Home tab.
- 3. In the Image group, click the Rotate option (Fig. 2.9).
- Select the rotate direction if you want to rotate (Fig. 2.10), or select the flip direction if you want to flip the drawing (Fig. 2.11). Flipping will give you a mirror image of your drawing.





Fig. 2.9 Rotate menu

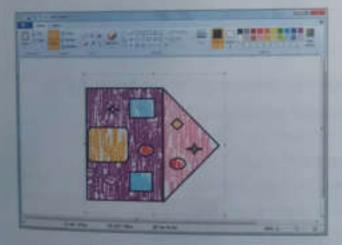


Fig. 2.10 Rotate right 90°

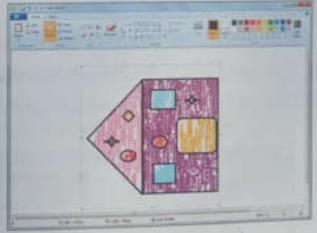


Fig. 2.11 Flip horizontal

RESIZE A DRAWING

You can use the **Resize** option to increase or decrease the size of a drawing or a part of the drawing. The steps are:

 Click Select on the Home tab, and then drag the pointer to select your drawing or a part of the drawing.

- 2. In the Image group, click the Resize option.
- 3. The Resize and Skew dialog box appears (Fig. 2.12).
- 4. Select the Maintain aspect ratio check box.

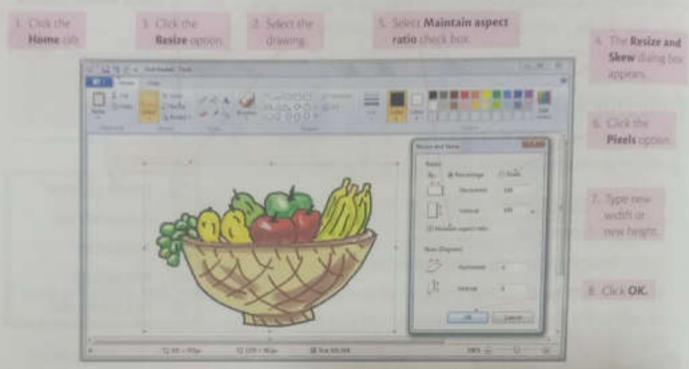


Fig. 2.12 Resize and Skew dialog box options

- 5. In the Resize area, click the Pixels option to set the new size.
- 6. Then type a new width in the Horizontal box or a new height in the Vertical box.
- 7. Click the OK button and you will get the resized drawing (Fig. 2.13).

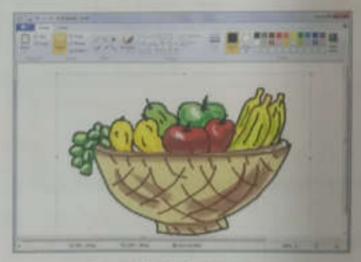


Fig. 2.13 Resized drawing







PRACTICE TIME

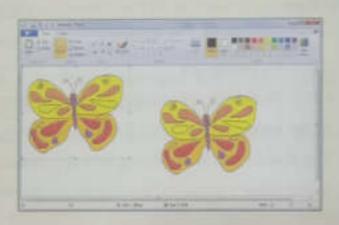


Mornina has drawn a picture of a butterfly in Paint. Her teacher wants her to make a copy of the butterfly and then resize it to 100 pixels. She also wants her to flip the second butterfly vertically.

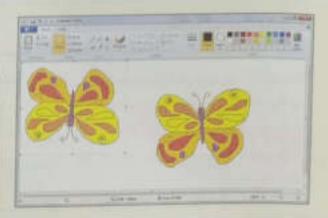
SOLUTION

- To make a copy of the butterfly do as follows:
 - a. Select the drawing.
 - In the Clipboard group, click the Copy option.
 - In the Clipboard group, click the Paste option.
 - d. A copy of the image of the butterfly will be placed at the top-left corner of the drawing area.
 - Notice that the new image of the butterfly is still selected. Click and move it to the desired position.
- 2. Let us now try to resize the butterfly image.
 - 2. Click the Home tab if it is not already selected.
 - b. Click the Select option and then drag the pointer to select the butterfly image
 - c. In the Image group, click the Resize option.
 - d. The Resize and Skew dialog box appears.
 - e. Select the Maintain aspect ratio check box.
 - f. In the Resize area, click the Pixels option.
 - g. Then type 100 as the new width in the Horizontal box or 100 as the new height in the Vertical box.
 - h. Click the OK button. The image will be resized to 100 pixels horizontally and vertically.
- 3. The steps to flip the botterfly vertically are.
 - a. Select the second image of the butterfly.





- Click the Home tab if it is not already selected.
- In the Image group, select the Rotate option.
- d. Select the Flip vertical option to flip the butterfly vertically.



SKEW A DRAWING

The **Skew** command twists the drawing in the horizontal or vertical direction. The steps are:

Resize and Skew CTRL+W dialog box

- 1. Click the Home tab.
- 2. Click the Select option and drag the pointer to select the drawing.
- 3. In the Image group, click the Resize option.
- 4. The Resize and Skew dialog box appears.
- 5. In the Skew area, type the amount (in degrees) by which to skew the selected area of the drawing in the Horizontal or the Vertical box (Fig. 2.14).
- Click the OK button and you will get the skewed drawing (Fig. 2.15).

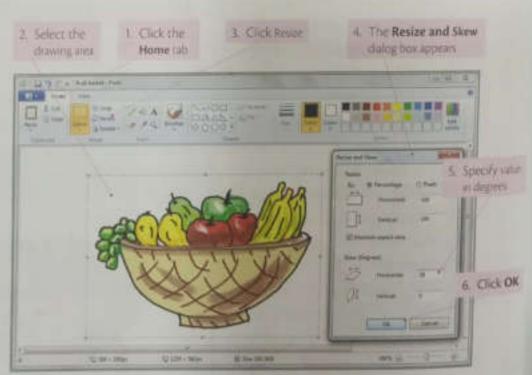


Fig. 2.14 Setting the Skew options

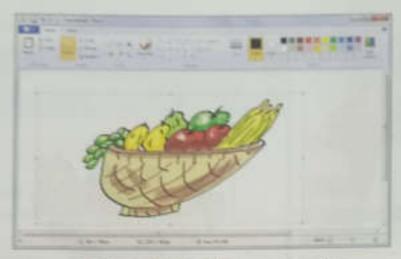


Fig. 2.15 Horizontally skewed drawing

SET DRAWING AS A DESKTOP BACKGROUND

The steps to set your drawing as the desktop background are:

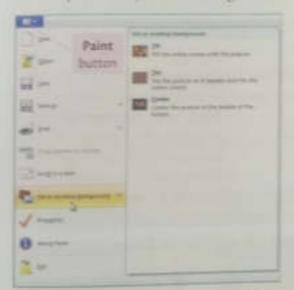


Fig. 2.16(a) Setting a drawing as the desktop background



Fig. 2.16(c) Tile View

- Click the Paint button and then point to Set as desktop background (Fig. 2.16(a)).
- Select any one of the three options: Fill, Tile, or Center.

The results are displayed in Figures 2.16(b-d).

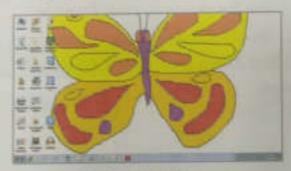


Fig. 2.16(b) Fill View



Fig. 2.16(d) Center View

Full Screen View

The steps to view your drawing in full screen are:

- 1. Click the View tab (Fig. 2.17)
- 2. In the Display group, click Full screen.

To exit Full screen and go back to the Paint window, click the drawing.

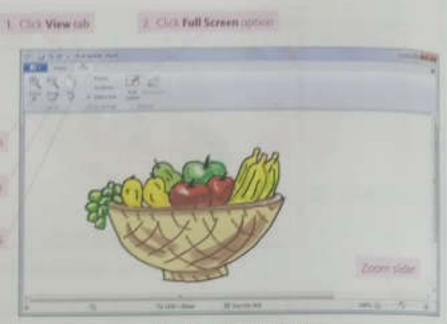


Fig. 2.17 The View tab

Top Tip

You can also click the

Zoom in a or Zoom out

buttons on the zoom slider at the bottom of the

decrease the zoom level.

Paint window to increase or

ZOOM IN AND OUT

You can use the Zoom in and the Zoom out options to see a larger or smaller view of your image (Fig. 2.17):

- 1. To see a larger view, first click the View tab. Then in the Zoom group, click Zoom in.
- 2. To see a smaller view, first click the View tab. Then, in the Zoom group, click Zoom out.
- 3. To view the actual size of the picture, click the View tab and in the Zoom group, click 100%

PRACTICE TIME



Rahman likes to eat ice creams. He has drawn a picture of an ice cream in Paint. Now his computer teacher wants him to try Paint commands to:

- Resize the drawing and reduce the size by 50 percent.
- Skew it horizontally by 60 degrees.
- Set the drawing as the desktop background where the image should be pied to repeat and fill the entire screen.



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 Zoom in to get a larger view of the icecream cone and then Zoom out on the drawing to get the full view of the drawing.

SOLUTION

- Draw a picture of an ice cream cone as shown.
- 2. To resize and skew the drawing:
 - a. Click the Home tab. Click the Select option and then drag the pointer to select the drawing.



- In the Image group, click the Resize option. The Resize and Skew dialog box appears.
 Select the Maintain aspect ratio check box.
- c. In the Resize area, click the Percentage option.
- d. Type 50 in the Horizontal or the Vertical box. Click the OK button.
- e. Now, in the Skew area, type the angle (in degrees), e.g., 60 by which to skew the selected area of the drawing in the Horizontal box. Click the OK button.
- To set the drawing as the desktop background, click the File button and then point to Set as desktop background. Select the Tile option.
- 4. To increase the zoom level, click the View tab. In the Zoom group, click Zoom in.
- 5. To reduce the zoom level, click the View tab. In the Zoom group, click Zoom out.

Computer Manners





Always keep the computer room clean. Since your shoes may have dirt stuck to them, remember to take your shoes off before entering the computer room.

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Tricky Terms



Undo used to reverse the last action performed

Redo used to reverse the effect of the Undo command

Skew twists a drawing in either the horizontal or the vertical direction Zoom in shows a larger view of the image Zoom out—shows a smaller view of the image



Memory Bytes

- You can select a drawing or part of a drawing using the Select tool.
- The Cut option can be used to cut the selected part of a drawing.
- The Copy option is used to get a duplicate of the selected part of a drawing.
- The Undo command is used to reverse the last action performed, while the Redo command is used to reverse the effect of the Undo command.
- You can use the Resize option to increase or decrease the size of a drawing or a part of the drawing.
- You can use the Rotate tool to change the angle of the whole, or a selected part, of the drawing.
- The Skew command twists the drawing in the horizontal or vertical direction.
- You can use the Zoom in and the Zoom out options to see a larger or smaller view of your image, respectively.

**EHERCISES



Objective Type Questions

1. Fill in the blanks with the correct words.

Zoom out	Select	reverse	Zoom in	Cut
a. The		option is used to	cut the selected p	art of a drawing.
b. The		option shows a la	uger view of the in	mage.
c. The		option shows a sr	maller view of the	image.
				action performed.
e. You can	select a part of a o	frawing using the		tool.



2. Write T for the true statement and F for the false one.

- a. The Flip option is used to rotate a drawing.
- b. You can set a drawing as a desktop background.
- c. You can reverse the last action performed using the Undo command.
- d. The keyboard shortcut for the Cut option is Ctrl + R.
- e. You cannot change the size of a drawing.

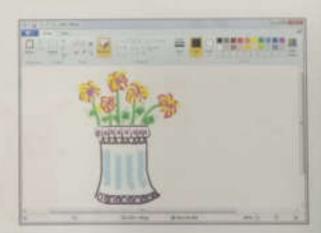
Descriptive Type Questions

1. Answer the following.

- a. What do you use the Paint software for?
- b. What are the functions of the Cut and Paste tools?
- c. What tool will you use to duplicate an image of a kite you have drawn? Outline the steps you will take to do so.
- d. If you want to see how your picture may look without the flower you have also drawn, what button will you use?
- e. Compare the uses of the Flip and Rotate tools. Which is easiest to use?
- f. Assume that the tree you have drawn in Paint fills the entire screen. Your teacher has instructed that the tree should only fill half of the screen. Which tool will you use to make the tree smaller?

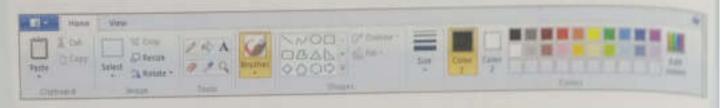
Application-Based Questions

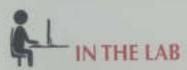
- a. Observe the figure alongside, and answer the questions.
 - Identify any two tools that have been used to draw this picture.
 - ii. Name the tab that is selected in the figure.
 - iii. What are the foreground and background colours selected in the figure?
- b. Ghazanfar has to draw the figure of a joker in Paint.
 - i. Which tab of the Paint window will be select to change the foreground and background colours?



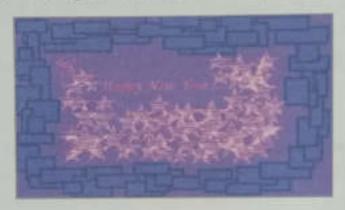


 Identify and name any four tools from the following figure that can be used to draw the figure of a joker.

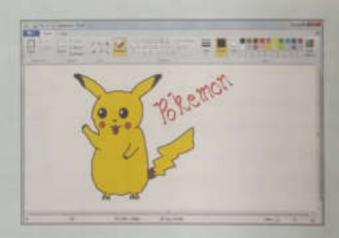




 Atif has designed a New Year greeting card in Paint as shown below. Make a New Year greeting card of your own, using the various tools in Paint, for your teacher.



Hasan loves watching cartoon films. He has drawn 'Pokemon', his favourite cartoon character in Paint. Which is your favourite cartoon character? Draw your favourite cartoon character in Paint.



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Kamila loves the rainy season. She has drawn a scene of the rainy season in Paint that you can see below. Can you draw the same in Paint? Or, you may draw a scene of your favourite season in Paint.



- 4. Tanya loves eating fruits. Her teacher wants her to draw her favourite fruit in Paint. She used tools in Paint to draw a picture of a mango. What is your favourite fruit? Use different tools in Paint to draw and colour the picture of your favourite fruit.
- 5. Now is your chance to show your lab partners how much you appreciate all their efforts on the computer. Design a 'Great Work Certificate' in Paint congratulating them for the great work they have done. Remember to use colour, well balanced text, and possibly use creative borders to complete the certificate. Make it as professional as possible!

GROUP PROJECT

As a group, your task is to produce an amazing piece of abstract art. Each member will create a different geometric shape. For example, he/she could make a triangle, and copy and flip it; or make a semi-circle, and copy and rotate it. Once done, the shapes can be filled with a variety of colours. Combine the shapes created by all members of the group to create an abstract art! Give your art work a suitable title and if possible get a printed copy, so you can proudly display your work near to your computer.

** TEACHER'S NOTES

- Students could be encouraged to use their imagination and create designs of their own.
 They should be able to use different options like Resize, Flip, Rotate, and Skew comfortably.
 Demonstrate the use of these options to the students.
- Explain aspect ratio to the students and emphasize that we should select this option so that the
 resized picture will have the same aspect ratio as that of the original picture. (The aspect ratio
 of an image is the ratio of the width of the image to its height. If a graphic has an aspect ratio of
 2:1, it means that the width is twice as large as the height.)





WORKSHEET—1

(Chapters 1 and 2)

	the second state of the Sand-Sand-Sand-Sand-Sand-Sand-Sand-Sand-	to the forms would enlated to a	computers	
	A. HERADAWR b. SETFORWA c. ETPDKSO	d. SCION		
2	Who am I?			
	a. I am used to store a group of files b. I am a piece of information store c. I am the button present at the left d. I am the tab present in a Paint win e. I am the toolbar that has the Und	d in the computer t corner of the taskbar dow that has the Cut and the	Copy options	
3,	Name the tool/option/button of the	Paint window used to do t	he following.	
	b. Increase or decrease the size of a	frawing in the horizontal or vertical direction		
4.	Group the following items under th	e correct header.		
	Kenhound MCW adams Connece D	THE PARTY		

Hardware	Software		

- a. How many items do you have under hardware?
- b. How many items do you have under software?

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let's Learn KTurtle



Kturtle teaches you how to program in an easy way. You can draw figures, type text, and perform simple math calculations in KTurtle.

Just as you use a pencil to draw and write in your notebook, KTurtle uses a turtle for drawing. This turtle can draw only when you give it a command.

A command means an order or an instruction. The turtle carries out the instruction or command typed by you.

In this Chapter

- Starting K Turtle
- Entering Commands
- The Toolbar
- . Saving an Image

STARTING KTURTLE

To start KTurtle, just click on the KTurtle icon on the Desktop.

The KTurtle screen will be displayed (Fig. 3.1).

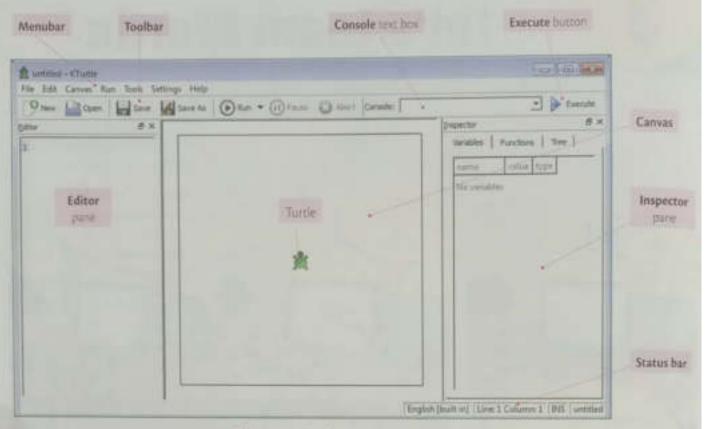


Fig. 3.1 KTurtle screen

The KTurtle screen is divided into three main parts:

- Editor Pane: It is present on the left of the screen where you type the commands.
- Canvas: It is the space in the middle of the screen where the turtle moves to make your drawing.
- Inspector Pane: It is present on the right of the screen which gives you information
 when your command is carried out.

Note: The Editor and Inspector panes can be docked to any of the borders of the main window. They can also be detached and placed anywhere on the desktop.

To 'dock' means to attach the panes to any side of the KTurtle window.

This can be done by placing the mouse on the title bar of the pane, pressing the left mouse button and then dragging it to one of the sides of the KTurtle window (Fig. 3.2).

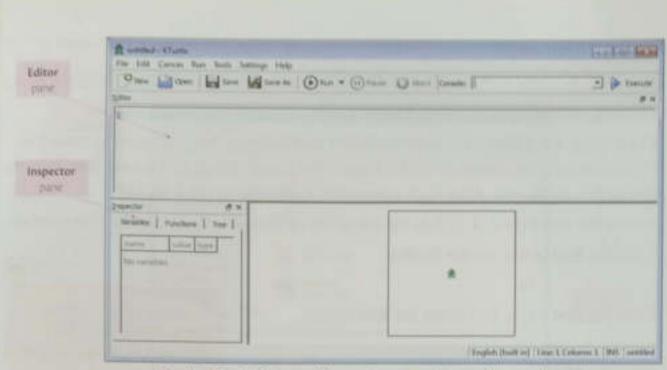
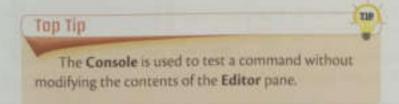


Fig. 3.2 The Editor and Inspector panes dragged to another corner

Besides these you will find the following on the screen:

- Menu bar: It is the bar on which all actions have been listed in menus. The actions are divided into the following groups: File, Edit, Canvas, Run, Tools, Settings and Help. The File menu is given in Fig. 3.3.
- Toolbar: This bar has buttons for the commonly used actions and allows you to quickly select any one of them. It also has the Console text box. Here you can enter a one-line command, and press the ENTER key or click the Execute button to run it.



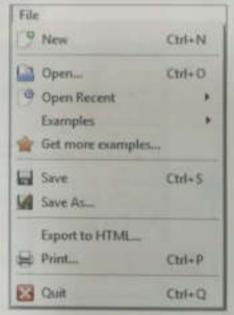


Fig 3.3 File menu on the menubar

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Status bar: It is present at the bottom of the screen and gives you the state of KTurtle.
On the left side it shows the last action performed. On the right side it shows the
current location of the cursor (Line and Column number), and the current language
being used for the commands.

ENTERING COMMANDS

Notice the cute turtle in the middle of the canvas? Let us now learn how to make it move by entering commands in the Editor pane:

 Click inside the Editor pane after number 1 and type the first command as shown in Fig. 3.4. Now, press Enter on the keyboard. The cursor moves to the next line. Type the rest of the commands. After each command, remember to press ENTER.

Notice the numbers 2, 3 ... 8 to the left of the commands. These are the line numbers

2. Click the Run button on the Toolbar.

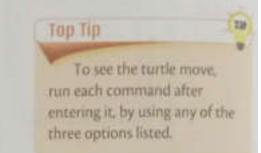
Or

Click the Run menu and select the Run option.

Or

Press the F5 key on the keyboard.

3. A square is displayed on the canvas.



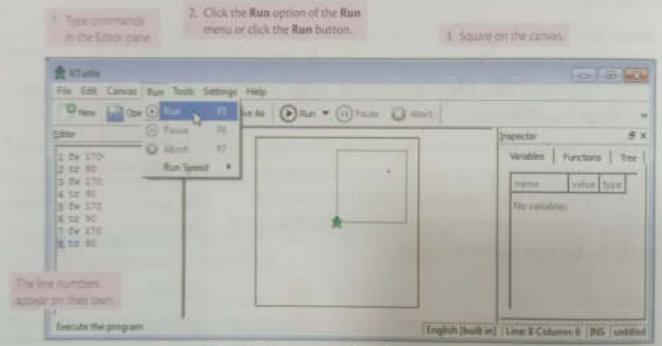


Fig. 3.4 A square displayed on the canvas

Now save this set of instructions or commands by the file name 'square'.

Saving a program

To save a program, do the following:

1. Click the Save button on the Toolbar (or Click File ➤ Save As)

- 2. The Save As dialog box appears (Fig. 3.5).
- 3. Select the drive and the folder, type the File name as square and click the Save button.

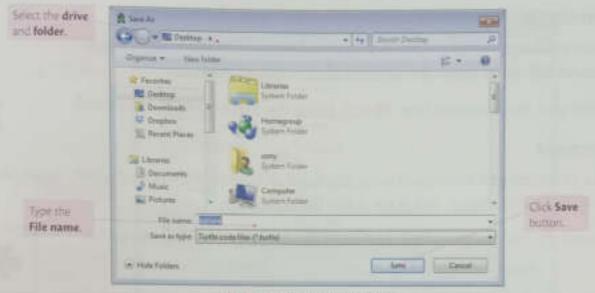


Fig. 3.5 Save As dialog box

You will notice that the saved program file has the extension .turtle.

Let us now understand what the function of each command is:

Top Tip

THE

The Save As command is used to save the file with a different name, whereas the Save command is used to continue saving the file with the same name. However, when you are saving the file for the first time, both commands will open the Save As dialog box.

FW Command

The fw or forward command is used to move the turtle in the forward direction. You also need to type alongside, the number of steps you want the turtle to move.

For example, the command forward 170 or fw 170 will move the turtle forward by 170 steps and draw a straight line.

TR Command

The tr or turnright command turns the head of the turtle towards the right. You also have to add the number of degrees you want the turtle to turn by. While turning, the turtle rotates, but stays at the same position.



For example, the command turnright 90 or tr 90 turns the turtle by 90 degrees to the right. Similarly, we have the bw command and the tl command.

BW Command

You can even command the turtle to go backwards! The bw or backward command is used to move the turtle in the backward direction.

For example, the command by 60 will move the turtle 60 steps backward.

TL Command

The tl or turnleft command turns the head of the turtle towards the left. Again, while turning, the turtle rotates, but stays at the same position.

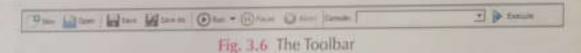
For example, the command t1 100 turns the turtle by 100 degrees to the left.



The commands to 360 or to 360 would make the turtle turn one complete circle and bring the turtle to the same point.

THE TOOLBAR

The toolbar appears just below the menubar. It contains buttons for the most commonly used commands such as New, Open, Save, Run, etc.



New Command

The New command is used to create a new file. Click the New button on the toolbar (Fig. 3.6) (or click on File > New on the menubar).

It clears the Editor pane. Now you can type a different set of instructions.

Open Command

The Open command opens an already existing file.

- 1. Click the Open button on the toolbar (Fig. 3.6) (or on the menu bar click on File > Open)
- 2. The Open dialog box appears (Fig 3.7).

- 3. (a) Select the drive and the folder.
 - (b) Select the file.

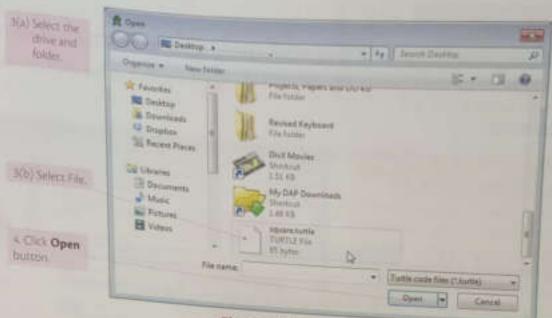


Fig. 3.7 The Open dialog box

- 4. Click the Open button.
- 5. The set of instructions will be displayed in the Editor pane.

Run Command

This starts the execution of the commands you have typed in the Editor pane. Click the arrow button next to the Run button on the toolbar (Fig 3.6). A menu appears.

You can change the speed of executing the commands by clicking one of the options from the list (Fig. 3.8).

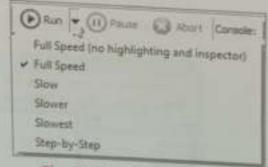


Fig. 3.8 Speed options menu

If you select the Slow option, you can actually see the turtle moving on the screen. If you select Full Speed, the turtle draws the figure so fast that you will not be able to see the movement of the turtle on the screen.

By default, the speed is set to Full Speed. You can select any option. The check mark will appear to the left of the selected option. When one of the slow modes is selected the command being executed will be marked in yellow colour in the Editor pane.

The Step-by-Step speed option will execute one command at a time. You will have to click the Run button for the execution of each command in the program.

Pause Command

It stops the execution temporarily. It starts executing again on clicking the Run button, It is enabled only when the commands are actually being carried out.

It stops the execution permanently. This button also is enabled only when the commands are actually being carried out.

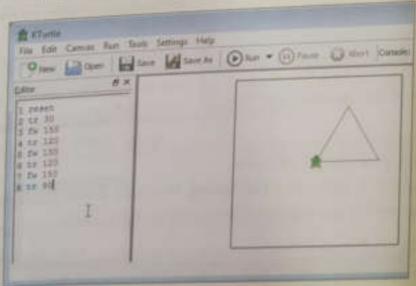
PRACTICE TIME



Arshia wants to draw a triangle on the canvas. Can you help her with this task?

SOLUTION

- 1. Double-click the KTurtle icon on the Desktop.
- The KTurtle screen will be displayed
- 3. Click inside the Editor pane and type the commands as shown alongside. Press the ENTER key after each command.
- 4. Click the Run button on the Toolbar.
- 5. A triangle will be displayed on the canvas.





SAVING AN IMAGE

To save an image, do the following:

- Click Canvas and select the Export to Image
 (PNG) option (Fig. 3.9).
- 2. The Save as Picture dialog box appears

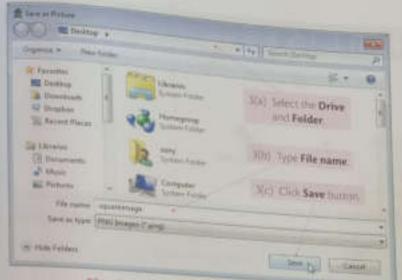


Fig. 3.10 Save as Picture dialog box

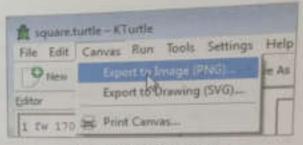
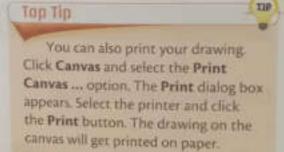


Fig. 3.9 Canvas menu



- a. Select the drive and the folder.
 - Type the File name as squareimage.
 - c. Click the Save button.



Tricky Terms

Canvas the area where the turtle makes your drawing

Turtle It is used to draw lines on the canvas.

Editor It is used to type KTurtle programming commands.



Memory Bytes

- KTurtle teaches you how to program in an easy way.
- The main window of KTurtle has three main parts: Editor, Canvas, and Inspector.
- The Editor pane is used to enter commands.
 These commands are executed by pressing the ENTER key or by clicking the Run button.
- The canvas is where you can see the turtle make your drawing.





- The Inspector pane shows you information about the command you have executed.
- A turtle carries out commands on the screen. You can slow down the execution of commands or increase the speed.
- · You can give easy commands to the turtle
- like forward (fw), backward (bw), turnright (tr), and turnleft (t1),
- You can both print and save all your drawings.

**EKERCISES



Objective Type Questions

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the blanks		COFFICIAL	UMYAHEMIZH

2. Write T for the true statement and F for the false one.

- a. You can change the shape of the turtle.
- b. The turtle sits in the Editor pane.
- c. You can change the execution speed of your program.
- d. The Save button is used to save the programming commands.
- e. You can save the image that the turtle draws on the canvas.

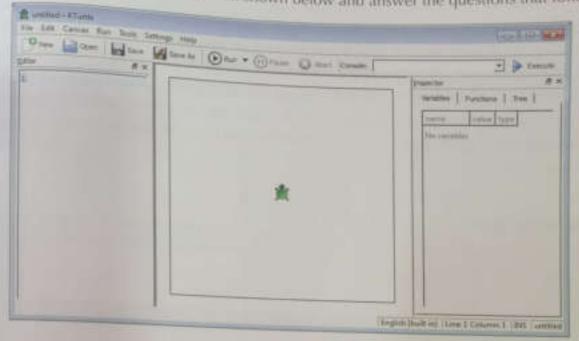
Descriptive Type Questions

1. Answer the following.

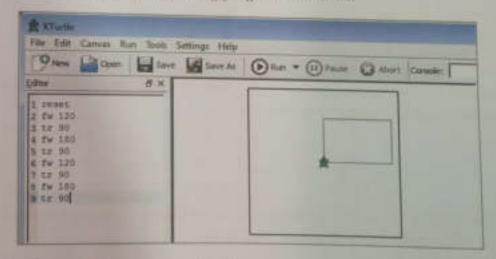
- a. In how many different types of speeds can you run the commands?
- b. What is the default execution speed in KTurtle?
- c. What is the function of a Console text box?
- d. Where will you look for the action last performed?
- e. Distinguish between the FW and BW commands.

Application-Based Questions

a. Consider the KTurtle main screen shown below and answer the questions that follow:



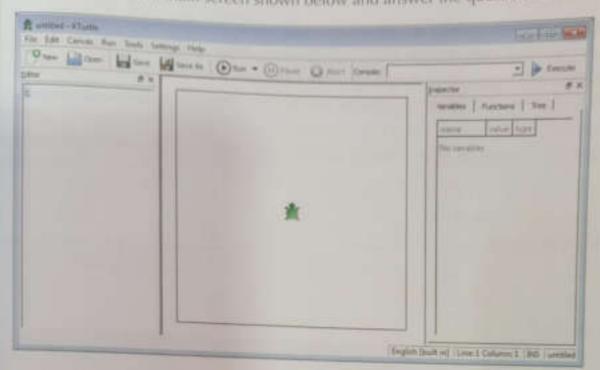
- i. Which pane is used for entering commands?
- li. Name the pane in which the turtle sits.
- b. Essa has typed and executed the following program in KTurtle:



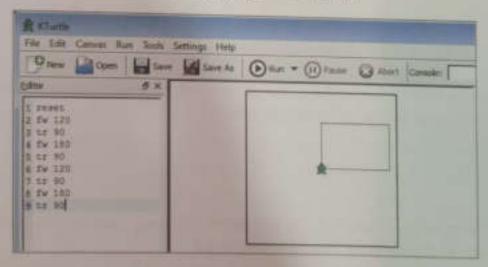
- i. Name the figure that has appeared on the canvas.
- ii. Which button on the Toolbar is used to execute the commands?

Application-Based Questions

a. Consider the KTurtle main screen shown below and answer the questions that follow:



- i. Which pane is used for entering commands?
- ii. Name the pane in which the turtle sits.
- b. Essa has typed and executed the following program in KTurtle:



- i. Name the figure that has appeared on the canvas.
- ii. Which button on the Toolbar is used to execute the commands?

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1. The computer science teacher, Ms. Shaheen, wants her students to type and execute the following sets of code and see what figure they get on the canvas. Please enter the commands column-wise. Draw the figure in the space provided. Also write the names of the geometrical figures. Use different speeds to execute the commands.

res		fw 100	
	90	bw 100	
Íw.	150	61 60	
EI	150	fw 100	

Name of the figure: .

Name of the figure:

Execute the following commands in Kturtle and save the image by the name of the figure.

Execute the toll	lowing commands in	VIIII CIT CITIC TO	fw 110
peset	fw 100	tr 70	IN IIM
fw 100	tr 70	fw 100	tr 70
EE 70	fw 100	tr 75	4 6 6

3. The computer science teacher has asked the students to type and run the following code, and save the image by any name of their choice.

and save the in	nage by any harre or	E STAN	tr	60 fw 100
reset	tr 60	fw 100		
	fw 100	tr 60	£W.	100
tl 90	tr 60	fw 100	tr	
fw 100	22 20	at a fall backer of	See also	enter a printout of the

4. Mashal, the monitor of class III A, has to type the following code and take a printout of the image that will appear. What does she need to do?

±1 90
fw 100

Note: The commands should be entered column-wise. The teacher may need to set up a printer and help the students in taking the printout.

5. Play with KTurtle! What happens on the screen when you use these given commands: FW, TR, BW, and TL?

GROUP PROJECT

Now is your chance to put KTurtle to work. Decide as a group what shape you would like KTurtle to create for you. Work out together, and write down, the commands needed to create the shape. (Is a five-sided star a bit of a challenge?) Type in the commands and see what happens. Share the tasks between yourselves to make sure you all have a turn at inputting the commands.

TEACHER'S NOTES

- It would be useful to demonstrate the execution of the commands at different speeds, using relevant examples, before the students start practising on their own.
- Explain the use of the Console text box to the students.
- The KTurtle software can be downloaded from the site http://windows.kde.org for Windows O5.

OXFORD



KTurtle Commands



In the previous chapter, we learnt how to draw in KTurtle using commands. In this chapter we will learn more about these commands and also some new ones.

When you start KTurtle, the turtle is seen at the center.
KTurtle uses simple commands to move the turtle
around the canvas.

FORWARD COMMAND

The forward or fw command as you learnt in the previous chapter, is used to move the turtle in the

In this Chapter

- · FORWARD Command
- · BACKWARD Command
- * TURNRICHT Command
- * TURNLEFT Command
- + DIRECTION Command
- · CENTER Communi
- Setting Canvas Size and Colour
- · Setting Pen Width and Colour
- Clear and Reset command

forward direction. You need to type the number of steps the turtle has to move. To use the forward command:

Step 1: Type forward or fw.

Step 2: Press the spacebar key.

Step 3: Type the number of steps.

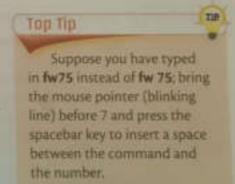
For example, the command forward 75 or fw 75 moves the turtle forward by 5 steps and draws a straight line. Figure 4.1 shows the turtle movement using the forward command.



Fig. 4.1 Using the fw command

Remember

- When you give a forward command, the turtle moves in the direction of its head.
- You should give a single space between the command and the number. For example, if you type fw75, an error message "An unknown function named 'fw75' was called" will appear (Fig. 4.2(a)). Click the Hide Errors button and correct the error in the Editor pane.



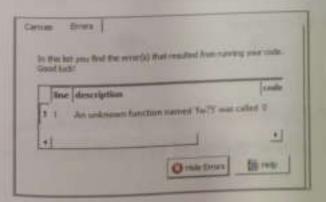


Fig. 4.2(a) Error message

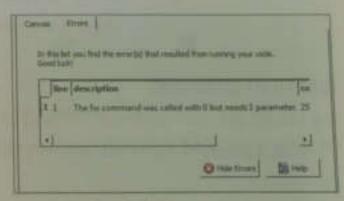


Fig. 4.2(b) Error message

If you simply type fw, an error message "The fw command was called with the but needs 1 parameter." will appear [Fig. 4.2(b)]. Click the Hide Errors button and correct the error in the Editor pane.

BACKWARD COMMAND

The backward or bw command is used to move the turtle in the backward direction.

While the turtle moves backwards by the given number of steps, its head remains pointed forward.

To draw a line in the backward direction:

Step 1: Type backward or bw.

Step 2: Press the spacebar key.

Step 3: Type the number of steps.

Suppose the turtle is at the center position. Let us give the command bw 50. This command moves the turtle 50 steps backward.

Let us look at some more examples (Fig. 4.3).



- You can also move the turtle forward by giving a negative input to the bw command. For example, bw -60 would move the turtle forward by 60 steps.
- You can also move the turtle backward by giving a negative input to the fiv command. For example, fw -80 would move the turtle back by 80 steps.

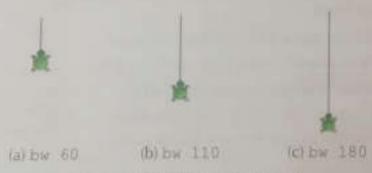


Fig. 4.3 Using the bw command

TURNRIGHT COMMAND

The turnight command turns the head of the turtle towards the right. While turning the turtle rotates, but stays at the same position. The short form of turnright is tr.

To turn the turtle to the right:

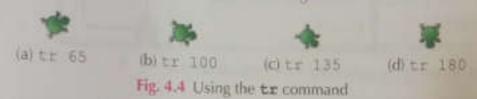
Step 1: Type turnright or tr.

Step 2: Press the spacebar key.

Step 3: Type in the number of degrees.

The number of degrees to be turned is given by this number. The term 'turning' means to move the turtle's head in a circular path. A circular path consists of a total of 360 degrees.

Let us look at some examples of the tr command (Fig. 4.4).



TURNLEFT COMMAND

The turnleft command turns the head of the turtle towards the left. The short form of turnleft is t1. To turn the turtle to the left:

Top Tip

commands.

The reset command is a

special command that cleans up the canvas completely. You can use it

whenever you want to try a new set of

OXFORD

Step 1: Type turnleft or tl.

Step 2: Press the spacebar key.

Step 3: Type in the number of degrees.

The number of degrees to be turned is given by this number.

Let us look at some examples of the ±1 command (Fig. 4.5).

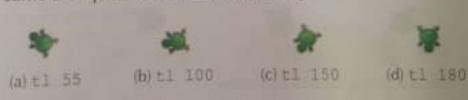


Fig. 4.5 Using the £1 command

The commands tr 360 or tl 360 would make the turtle turn one complete circle.

PRACTICE TIME



Tina wants to draw a rectangle of breadth 40 steps and length 60 steps in KTurtle using the turn right (tr) command. Can you help her out?

SOLUTION

- Tina should type the code given alongside in the KTurtle Editor pane.
- After typing the code, she should click the Run button.
- The output will appear as given here.

 Note: Try doing the same using the ±1 command also

	_	
1	res	et
2	IW.	40
3	tr	90
4	EW	60
5	DE	
6	fw	40
7	tr	90
B	Ew.	60
9	UE	90
		-

DIRECTION COMMAND

You can also command the turtle to point its head in any direction without using the tr or tl command. You can do this using the direction command. The short form is dir.

The direction command followed by the number of degrees turns the turtle's head in the clockwise direction by those many degrees.

Let us look at some direction commands (Fig. 4.6).

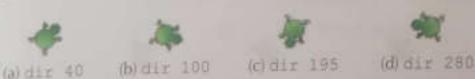


Fig. 4.6 Using the dir command

If you are not sure of how many degrees the turtle should move, click Tools and, in the menu, select Direction Chooser ... (Fig. 4.7).

The Direction Chooser dialog box appears (Fig. 4.8). Now do the following:

command, degrees are counted from the starting position of the turtle each time the command is

In the direction

Top Tip

given, whereas in LI and LE commands, degrees are counted from the current position of the turtle.

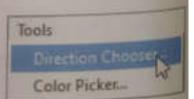


Fig. 4.7 Tools menu

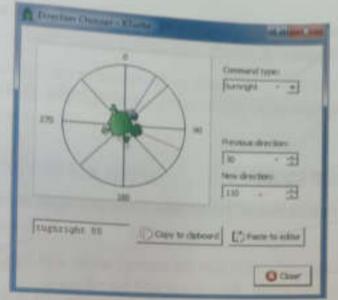


Fig. 4.8 The Direction Chooser dialog box

- 1. Choose the Command type theuright turniarter 2. Previous direction shows the position of the saute in degrees. 1. Cheose the New direction in degrees of drag the wide.
- 5. Click Paste to editor in paste the command in the Editor pane.
- 6. Chick Close human

1. Choose the Command type.

appears existe.

- 2. Previous direction shows the position of the turtle in degrees.
- 3. Choose the New direction in degrees or drag the turtle to the new position.
- 4. The command will appear in the text box on the left.
- Click the Paste to editor button. The command will appear in the Editor pane.
- 6. Click the Close button.

CENTER COMMAND

The center command brings the turtle to the center of the canvas without drawing a line. The head of the turtle points in the same direction as in the previous command. The center command does not draw a line as it moves to the center of the canvas. Consider the following set of commands (Fig. 4.9):

fw 100 tr 158

Center

The first command moves the turtle to the center of the canvas with its head (a) reset (b) fw 100 tr 150 (c) center Pointing upward [Fig 4.9(a)].

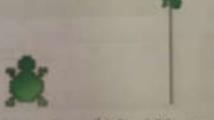






Fig. 4.9 Using the center command

The second and third commands move the turtle forward by 100 steps and then move its head by 150 degrees to its right [Fig 4.9(b)].

The last command (Fig 4.9(c)) brings the turtle to the center of the canvas without drawing a line. The head of the turtle points in the same direction as in the previous command, i.e., tr 150.

SETTING CANVAS SIZE AND COLOR

You can change the size and colour of the canvas. The commands are canvassize and canvascolor.

The command canvassize 200, 200 sets the canvas width and height to 200 steps. Since the width and height are equal, the canvas will be a square.

The command canvascolor 0, 0, 0 makes the canvas black. 0, 0, 0 is called the RGB value. The first number stands for **Red**, the second for **Green**, and the third for **Blue**, Each of them can take values from 0 to 255. A zero for each gives the colour black.

You can also set the colour values by following the steps given below:

- 1. Click Tools.
- 2. Select the Color Picker option in the menu that opens (Fig. 4.7).
- 3. The Color Picker dialog box appears (Fig. 4.10).

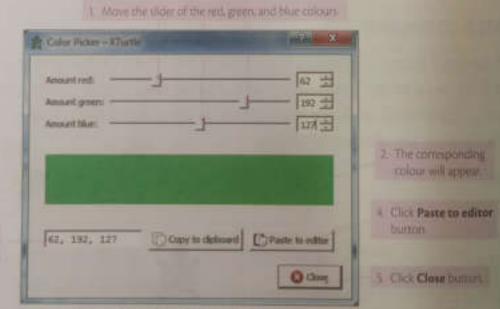


Fig. 4.10 Color Picker dialog box

The RGB numbers
 appear in the rest box.

- a. You can move the slider for red, green, and blue, and the colour that is formed by a combination of their values will appear. The RGB numbers are shown in a text box
- b. Click the Paste to editor button. The command will appear in the Editor pane.
 c. Click the Close button

SETTING PEN COLOR AND PEN WIDTH

In KTurtle, you can change the pen colour and the pen width also. The commands are pencolor and penwidth, respectively.

pencolor Command

With the pencolor command you can set the colour of the pen to the one that you like by changing the RGB values. The short form of pencolor is pc.

For example,

pencolor 255,0,0 gives red colour. pencolor 0, 255, 0 gives green colour. pencolor 0, 0, 255 gives blue colour.

Note: You can use the Color Picker dialog box to know the RGB value of a particular colour.

Did you Know?

RGB values for some common colours

RGB combination	Colour	RGB combination	Colour
0.0.0	Black	255, 255, 0	Yellow
255, 255, 255	White	255, 0, 255	Pink
150, 0, 0	Dark red	0. 255, 255	Light

penwidth Command

The penwidth command sets the width (size) of the pen. The short form of penwidth is pw. For example, penwidth 50 sets the pen width to 50 units. Now every line the turtle draws will have a thickness of 50 units.

CLEAR AND RESET COMMAND

The clear command will clean all drawings on the canvas. But the position and angle of the turtle, the canvas colour, and canvas size will remain as they were. The short form of clear is ccl.

The reset command will clean all drawings on the canvas and also bring the turtle back to the middle of the screen. The canvas colour will be set to white, and everything will be as it was before you started the drawing. There is no short form of the reset command.

PRACTICE TIME



Asad wants to draw a red colour rectangle of pen width 5 units on a yellow colour background. Can you help him in this task?

SOLUTION

- Type the code given alongside in the editor pane. (To draw a red colour rectangle of width 5 units. Asad needs to change the pen colour to red and the pen width to 5. To set the background colour, he needs to change the canvas colour to yellow)
- 2. After typing the code, click the Run button.
- 3. The output will appear as:



1 reset 2 canvascolor 255,255,0 3 pencolor 255, 0, 0
4 penwidth 5 5 fw 40
6 tr 90 7 fw 60
8 tr 90 9 fw 40
10 tr 90 11 fw 60
12 tr 90 T

1

Tricky Terms

RGB a combination of Red, Green, Blue colour codes used to specify colours

Degree a unit to measure a turn

Turning to move the turtle's head in a circular path



Memory Bytes

- The forward or fw command moves the turtle forward by the number of steps that you type.
- The backward or bw command moves the turtle backward by the number of steps that you type.
- The turnright or tr command turns the turtle towards the right by the number of degrees that you type or select.
- The turnleft or tl command turns the turtle towards the left by the number of degrees that you type or select.

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- the direction or dir command turns the turtle by the number of degrees you type, counting from zero each time.
- The canvassize or es command sets the
- , The canvascolor or co command sets the colour of the canvas.
- The pencolor or pc command sets the colour of the pen used for drawing on the canvas.
- The penwidth or pw command sets the thickness of the pen used for drawing on the canvas.
- The two commands to clear the canvas are clear (ccl) and reset.

**EHERCISES



Objective Type Questions

1. Fill in the blanks with the correct words.

a. b.	The	······ comn	direction nand turns the turtle' nand clears the cany nand counts the num nand sets the thickne	as.	
			nand sets the size of		

2 Write T for the true statement and F for the false one.

- a. The backward command can be used to move the turtle forward.
- b. There is no short form of the reset command.
- C. You cannot change the thickness of a pen.
- d. The RGB combination is three numbers in the range 0 to 100.
- e. The short form of the clear command is cl.

1. Choose the correct option.

- a. This command moves the turtle forward by 80 steps.
 - i. fw 80
- H. bw -80
- Hit tr 80
- iv. both I and it
- b. This command turns the turtle by 90 degrees to the left.
 - i. tr 90
- ii. tl 90
- iii. dir 90
- iv. fw 90

c. The command that takes no input.

i. dir

ii. clear

iii. reset

iv. both ii and iii

d. The command to change the turtle's pen colour to yellow.

l. pencolor 255, 255, 255

ii. pencolor 255, 255, 0

iii. pencolor 255, 0, 255

iv. pencolor 0, 255, 255

e. The command to change the canvas size to 300 steps height and 300 steps width.

i. canvassize 100, 300

ii. canvassize 300, 300

III. canvassize 300, 100

iv. canvassize 100, 100

Descriptive Type Questions

1. Answer the following:

- a. Write a command to change the size of the canvas to 200 steps height and 200 steps width.
- b. Write a command to change the thickness of the turtle's pen to 40 units.
- c. Are the commands turnright 360 and turnleft 360 the same? What do they do?
- d. How many degrees does a circular path consist off
- e. Which command performs the same functions as 'tr' or 'tl'?
- f. What are the similarities and differences between clear and reset commands?

Application-Based Questions

- a. Salman has just learnt the commands of KTurtle. He wants to turn the turtle to the right by 150 degrees. He has given the command, turnright 150.
 - i. Can you perform the same action using turnleft?
 - ii. Do the following commands give the same output?

turnright 90

turnright 60

iii. Can you get the same output with the following commands?

direction 90

direction 60

b. Shanila has been asked to write the command in the right column of the table for the tasks given in the left column. Can you help her out?

urn the turtle 80 degrees to the left.	Command	
Move the turtle 90 steps backward.		
arring the turtle to the center position in the		
ame state when you started KTurtle.		
Nove the turtle 60 steps forward.		
hange the canvas colour to red.		



IN THE LAB

- The Computer Science teacher has asked Mahad to draw a rectangle of width 60 steps and length 150 steps in KTurtle. Can you help him with the steps needed? Now change the width of the turtle's pen to
 - a penwidth 5
 - b. penwidth 25
 - c. penwidth 50

Run the program for each case and see the changes.

- Nabiha has to draw a triangle in KTurtle. What commands should she enter? Now change the colour of the turtle's pen to
 - a. pencolor 255, 0, 0
 - b. pencolor 0, 255, 0
 - c. pencolor 0, 0, 255

Run the program for each case and see the changes.

- The students were asked to type and execute the commands to draw the letter 'C' in KTurtle.
 Now change the canvas size to 300, 300. What do you see? Change the colour of the canvas to
 - a. canvascolor 255, 0, 0
 - b. canvascolor 0, 255, 0
 - c. canvascolor 150, 50, 255

Run the program for each case and note the colour of the canvas.

 Type and execute the following commands and draw the figure in the space provided. Enter the commands column-wise.

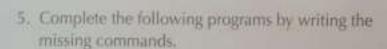
a. reset	t1 110
tr 20	fw 80
FW 120	

£w 70

tr 90

fw 150

d. reset	fw 300
fw 150	±1 90
tr 90	fw 150
fw 150	t1 90
tr 90	fw 150
fw 150	t.I 90



fw 150

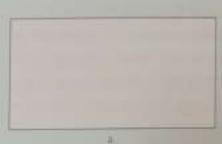
a. reset

Em 90

penwidth 5 pencolor

tr 30 fw 120 tr 120

bw 60

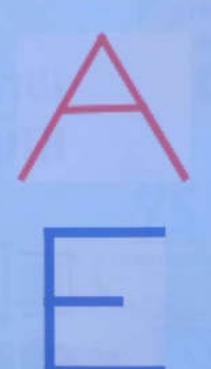








b, reset penwidth 10 pencolor fw 150 fw 120 bw 120 tr 90 tl 90 Ew 75 tr 90 fw 75 tl 90 fw 120



Draw a perfect square using Kturtle commands.

GROUP PROJECT

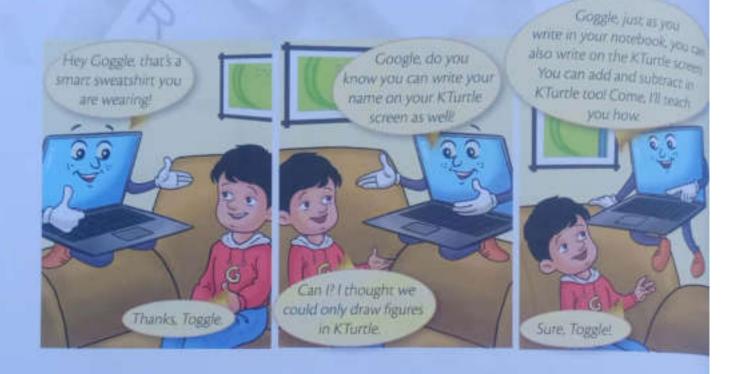
Can you create a colourful smiley face using KTurtle? It is time to use the direction commands, the pencolor commands, and the penwidth commands. It is a tough task and you will need to work together as a team, helping and advising one another every step along the way.

** TEACHER'S NOTES

- Ensure that enough exercises to draw various geometric figures are given for practice.
- The concept of angles could be taken up before teaching the tr, tl, and dir commands, if it has not been taught already in Math class.
- The concept of primary colours—red, green, and blue—could be explained to students before teaching the canvascolor and pencolor commands,



Writing and Math in KTurtle



So far you have used the turtle to draw figures on the canvas. In this chapter, you will learn about the commands used to write on the canvas. You will also learn how to solve math sums in KTurtle.

Before we write any text or numbers on the canvas, let us learn how to set the font size in KTurtle.

FONTSIZE COMMAND

The **fontsize** command sets the size of the font that is used by the turtle to write text of numbers on the canvas. It takes one input which should be a number. The size of the fort is set in units.

In this Chapter • FONTSIZE Command • PRINT Command • GO Command • SPRITEHIDE and • SPRITESHOW Command • Math in KTurtle

For example, fontsize 50 sets the size of the font to 50 units.

PRINT COMMAND

The print command is used by the turtle to write text or numbers on the canvas.

Let us run the following commands:

fontsize 50

print 75

This will print the number 75 horizontally on the canvas (Fig. 5.1).



Fig. 5.1 Horizontal output

If you want to print text, it should be entered using double quotes (""). Enter the following commands in the Editor pane:

reset

fontsize 14

tr 90

print " Look! A Turtle on the canvas!"

The tr 90 command turns the turtle 90 degrees towards the right.

In this case, the turtle will write the text vertically on the canvas (Fig. 5.2).

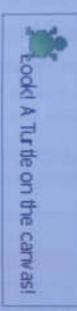


Fig. 5.2 Vertical output

GO COMMAND

You can even move the turtle to a certain place on the canvas without drawing a line. You can do this with the help of the go command. The position of the upper left corner of the canvas is given by 0, 0. The number of steps the turtle will move is calculated from that position. For example,

go 50, 50

moves the turtle (counted from the upper left corner) 50 steps to the right and 50 steps down on the canvas.

Now, try the following commands:

teset

fontsize 40



go 30, 20 print "This turtle is cute!"

The go command moves the turtle, from the upper left corner, 30 steps to the right and 20 steps down on the canvas. Then, it writes the text at the position of the turtle, horizontally on the screen (Fig. 5.3).

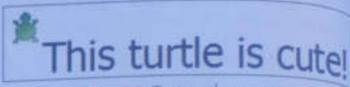


Fig. 5.3 Text on the canvas

SPRITEHIDE AND SPRITESHOW COMMANDS

You might have seen that the turtle is always visible on the canvas.

The turtle is also called a **sprite**. A **sprite** is a small creature that is supposed to have magic powers. You can hide the turtle so that it becomes invisible after your drawing is complete. This can be done using the **spritehide** or **sh** command.

If you want to make the turtle appear on the screen again, give the spriteshow or as command. This makes the turtle visible on the screen again.

PRACTICE TIME



Naveen wants to draw an arrow starting from the upper left corner to the lower right corner of the canvas. Can you help her in the task? Do you get the same result as Naveen (Fig. 5(a)) if you type and run the following commands in the Editor pane? Check to see the result.

SOLUTION

reset turnleft 150
penwidth 2 forward 40
go 5.5 backward 40
direction 135 turnleft 55
forward 100 forward 40

Line

Fig. 5(a)

Note: Enter the commands column-wise.

Now hide the turtle by executing the spritchide command and make

Now hide the turtle by executing the spritchide command and make the turtle appear by executing the spritcshow command.







MATH IN KTURTLE

You can also solve math sums in KTurtle. The symbols used for this purpose are:

Operator	Meaning	
+	Add	
12	Subtract	
	Multiply	
1	Divide	
٨	Power	

These symbols are called arithmetic operators. The arithmetic operators can be used with the print, forward, backward, turnright, turnleft, direction, and go commands. They usually take two inputs.

math using the print command

Let us look at a few examples of using arithmetic operators with the print command [Fig 5.4(a-d)]

reset qe 20, 20 fontsize 40 print 53 + 35	reset go 20, 20 fontsize 40 print 50 - 17	reset go 20, 20 fontsize 40 print 45 * 10	reset go 20, 20 fontaize 40 print 48/4
88	33	450	当2
(a) Add	(b) Subtract	(c) Multiply	(d) Divide

Fig. 5.4 Basic arithmetic operations using the print command

Math Using Other Commands

Let us now look at some examples of using arithmetic operators with the forward, backward, turnright, turnleft, direction, and go commands (Fig. 5.5):

a. fw 12 * 5 It moves the turtle forward by 60 units [Fig. 5.5(a)].



b. bw 160/2 It moves the turtle backward by 80 units [Fig. 5.5(b)].



C. tr 145 - 25 + 40It turns the turtle right by 160 degrees [Fig. 5.5(c)].



d. t1 110 \pm 20 It turns the turtle left by 130 degrees (Fig. 5.5(d)).



e. direction 180 - 30 It turns the turtle right by 150 degrees [Fig. 5.5(e)].



f. direction 20 * 3 * 4

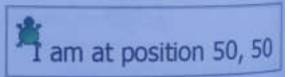
It turns the turtle right by 240 degrees [Fig. 5.5(f)].



Fig. 5.5 KTurtle actions using basic arithmetic operators

They can also be used with the go command. Look at the following example:

fontsize 25 go 30 + 20, 30 + 20 print " I am at position 50, 50"



It changes the size of the font to 25. It then moves the turtle 50 steps to the right and 50 steps down. Then it prints "I am at position 50, 50" on the screen.

ask Command

This command allows you to enter a number or text, so that you can provide an answer to a question. The command starts with \$n\$ followed by an equal to (=) sign.

On the right side of the equal to (=) sign, type ask followed by some text enclosed in double quotes (* "). Thus, the command looks like this:

sn = ask "type some text here"

For example, the command [Fig. 5.6(a)]

\$n = ask "Please enter your school name"

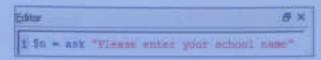


Fig. 5.6(a) An ask command

displays a question asking you to enter your school name. Enter the school name and click **OK** to answer the question [Fig. 5.6(b)].

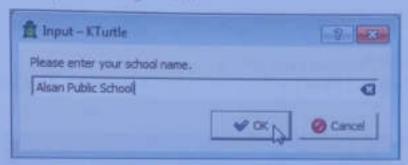


Fig. 5.6(b) Input dialog box

Message Command

The message command is used to give some information by displaying the text you have typed. For example, the command

message "KTurtle helps me in learning programming"

displays the message you have entered with the message command (Fig. 5.7).

You can combine both ask and message commands to ask a question using the ask command and provide an answer to that question using the message command.

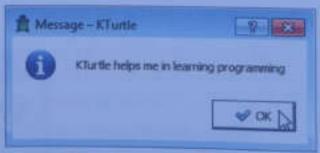


Fig. 5.7 Message dialog box

PRACTICE TIME



Sameen wants to write a program in KTurtle that asks the user to enter his/her nickname (say, Samy) and print the message "Hello, Samy!". What steps should Sameen take?

SOLUTION

As you can see we first have to use the ask command and then the message command.

Enter the commands as given below (Fig. 5b);

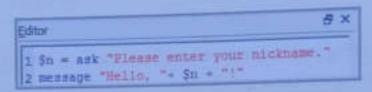


Fig. 5b Program code

- 2. Run the program.
- 3. First, it will open the Input box. Enter your nickname. Let us take "Samy" as an example

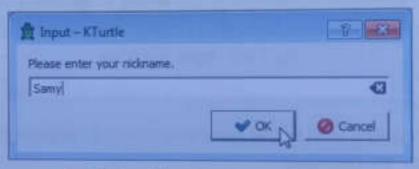


Fig. 5c Input box to enter your nickname

- 4. Now click OK.
- Once you click OK, the message "Hello, Samy!" will be displayed (Fig. 5d).



Fig. 5d Message box displaying greeting







Tricky Terms

fontsize changes the size of a font used in print command

print writes text or numbers on the canvas
Arithmetic operators the operators +, -, *, /
and ^ used for calculations

sprite a small creature that is supposed to have magic powers

spritchide hides the turtle

spriteshow makes the turtle visible after it has been bidden



Memory Bytes

- spritchide command is used to
- The fontsize command is used to change the size of the font used in the print command.
- The print command is used to write any text or number on the canvas.
- The go command is used to move the turtle to any position on the canvas without drawing a line.
- The spritehide command is used to hide the turtle.
- The spriteshow command is used to make the turtle visible after it has been hidden.
- The arithmetic operators used in KTurtle are +, -, *, / and ^.

**EKERCISES



Objective Type Questions

1. Fill in the blanks with the correct words.

fontsize	go	print	spritehide	spriteshow		
a. The	соп	mand writes text	t or numbers on the car	nvas,		
b. The	соп	imand changes ti	he size of the text or nu	imber.		
⊂ The	necommand is used to move the turtle without drawing a line.					
d. The	con	mand allows yo	u to hide the turtle.			
			unhide the turtle.			

2. Choose the correct options.

a. The operator used for multiplication is

ii. --

- iii. * iv. / b. The operator used for subtraction is

IV. A

It moves the turtle forward by 60 steps.

iv. fw 100/5 i. fw 120 - 50 ii. fw 70 + 5 - 15 iii. fw

d. It turns the turtle right by 70 degrees.

ii. tr 90 - 20 i, tr 50 + 10 iii. tr 15 * 5

e. The command used to move the turtle 40 steps to the right and 30 steps down from the top left corner.

ii. go 40, 30 iii. fw 40 + 30 i. go 30, 40

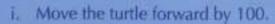
Descriptive Type Questions

1. Answer the following.

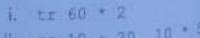
- a. Why is the font size an essential command of the KTurtle program?
- b. What command would you use to write the text horizontally?
- c. Can you only move the turtle to the bottom of the canvas by drawing a line?
- d. How will you solve the division sum: 84/4 in KTurtle using arithmetic operators with the print command?
- e. Which command would you use in KTurtle to ask the name of a place and to get an answer? Outline the steps you would take to write this command.

Application-Based Questions

- a. The Computer teacher has asked the students to write the commands used to draw a triangle on the canvas.
 - (i) Which command will you use to hide the turtle?
 - (ii) Which command is used to erase the drawing and bring the turtle to the starting position?
- Aman has learnt the commands and arithmetic operations in KTurtle. The Computer Science teacher has given him the task to match the following:



ii. Turn the turtle left by 80 degrees.



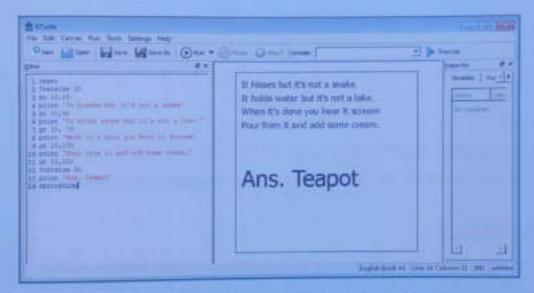
- iii. Move the turtle backward by 150.
- iv. Turn the turtle right by 120 degrees.
- w. Move the turtle 30 steps to the right and 50 steps down from the top left position.

Can you help him with the correct answers?



IN THE LAB

1. The class teacher has asked the students to write a riddle or a poem of 4—5 lines in KTurtle. He wants them to use the fontsize, go, and print commands. Can you perform the same task? One example is given below:



The Computer Science teacher has asked the students to try the following commands in KTurtle and note down their result.

3. The Math teacher has asked the students to do the following arithmetic calculations. Sajid who has just learnt how to solve math sums in Kturtle finds out the results quickly. Can you do the same task in Kturtle?

4. Try the following commands and draw the picture you get in the space provided.

a.	reset	print "Hello!"
	fontsize 50	pencolor 0,0,255
	pencolor 255,0,0	tr 90
	tr 90	print "Hello!"
	print "Hello!"	pencolor 122,76,122
	pencolor 0,255,0	tr 90
	tr 90	print "Hello!"

Note: Enter the commands column-wise.

b.	reset	tr 90
	canvascolor 0, 255, 0	£w 90
	pencolor 255,0,0	tr 90
	penwidth 10	go 160, 220
	fw 90	fontsize 30
	tr 90	pencolor 0, 0, 255
	fw 90	print "This is a"
	tr 90	spritehide
	fw 90	

Fill in the blanks based on the figure you get on the canvas. Enter the commands column-wise Practice hide and seek with the turtle. Hide him first and then make him reappear.

GROUP PROJECT

- 1. In your group, do these mathematical calculations using the KTurtle. (Check your answers with a calculator)
 - 1) 45 + 83
- II) 67 + 93 III) 900 456
- IVI 675 325
- 2. Set multiplication and division problems for each other and find the solutions using the KTurtle.



TEACHER'S NOTES

- · Discuss the use of fontsize in print command.
- Discuss the arithmetic symbols used in Math and compare them with the arithmetic operator in KTurtle.
- Ensure that the students familiarise themselves with using arithmetic operators with the £x, b tr, tl, and dir commands in a variety of situations.

WORKSHEET-2

(Chapters 3-5)

1. Search for any five KTurtle commands in the following maze:

D	C	A	N	٧	Α	S	C	0	L	0	R	1	G	Т
F	S	W	Α	Z	N	R	Е	Ε	н	A	G	S	В	U
0	S	A	C	C	Н	S	R	N	A	F	Н	P	N	R
R	D	V	U	K	D	A	0	F	G	С	1	R	F	N
W	D	Р	Ε	N	W	1	D	T	Н	В	K	1	D	R
A	٧	В	N	A	T	Ü	Т	Α	Τ	Н	1	T	5	1
R	Ţ	N	K	C	В	S	5	D	U	U	L	E	Α	G
D	R	R	Ε	S	Ε	Ţ	В	R	F	R	P	S	C	Н
В	Н	R	U	D	C	S	D	A	D	E	0	Н	Т	Т
E	1.	М	1	F	V	L	E,	1	C	D	Н	0	H	K
D	E	F	О	G	В	J.	R	H	G	K	G	W	U	H
R	D	5	P	L	N	M	P.	Т	S	A	W	A	F	F
W	P	Ε	N.	C	0	L	0	R	W	Ē	F	A	R	R
A	S	E	Т	A	Z	\$	W	E	T	H	U	В	R	D
T	U	R	N	L	E	F	T	R	Y	G	M	N	V	D

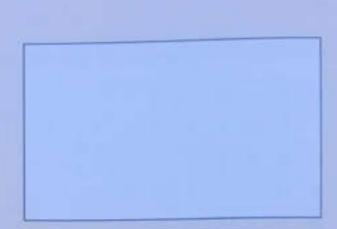
2. Match the commands on the left with their actions on the right.

- a. print 34 + 56
- b. turnright 120
- C direction 120
- d. forward 100
- e spritehide

- i. It hides the turtle.
- ii. It moves the turtle forward by 100 units.
- iii. It prints 90.
- It turns the turtle right by 120 degrees from the previous position.
- It turns the turtle right by 120 degrees from the starting position.

Complete the missing statements to draw a rectangle of size 60 steps by 100 steps.
 What is the colour of the rectangle you get? Draw a rectangle of the same colour in the given box.

reset
penwidth 5
pencolor 255, 0, 0
forward 60
forward 100
turnright 90
turnright 90

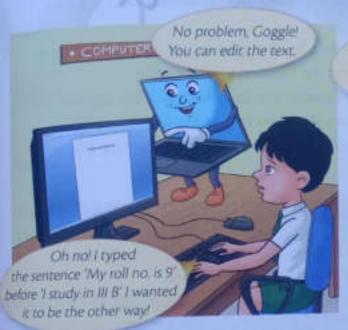


4. Write the short form of the following commands.

Command	Short form
spriteshow	
canvascolor	
penwidth	
direction	
spritehide	
turnright	
turnleft	
forward	
backward	
canvassize	



Editing Text in Word 2013





You know that Word is a very popular software that allows you to type and save stories, letters, poems, etc.

In the previous class, you learnt some of the basic features of Word 2013:

- How to start Word 2013
- How to create and save a document
- How to open a saved document, and
- How to change the font size and font colour of a piece of text.

Let us quickly revise them and then move further.

In this Chapter

- Parts of the Word 2013
 Window
- Editing Text
- Undo and Repeat commands
- Copying and Moving Text

Table 6.1 Basic commands in Word

Function	Steps
Starting Word 2013	Start ► All Programs ► Microsoft Office 2013 ► Word 2013
Creating a new document	Click the FILE tab. Click the New option in the left pane. In the right pane, select Blank document.
Saving a document	Click the Save button on the Quick Access Toolbar OR click the FILE tab. In the screen that appears, click the Save As option in the left pane. In the center pane, select the location as Computer. In the right pane, click Browse. The Save As dialog box appears. Select the location where you want to save the file. Type the file name in the filename box and click the Save button.
Opening an existing document	Click the FILE tab. Now click the Open option in the left pane of the screen that appears. In the center pane, select the location as Computer. In the right pane, click Browse. The Open dialog box appears. Select the location, the file and then click Open.
Closing a document	Click the FILE tab. Click the Close option in the left pane.
Change font size and colour	Select the text. Click the HOME tab, if it is not selected. In the Font group, choose your font size and colour.

PARTS OF THE WORD 2013 WINDOW

The various parts of the Word 2013 window are shown in Fig. 6.1. In the previous class, you came to know about some of these parts. Let us learn about more of them.

Dialog Box Launcher

The dialog box launcher is a small icon that appears in some groups. If we click this icon, a dialog box opens related to that group. A dialog box is a new window that pops up. It has options that you can select as per your choice.

Zoom Control

The zoom control can be used by clicking, holding, and dragging the slider. The number to the right of the slider bar reflects the zoom percentage,





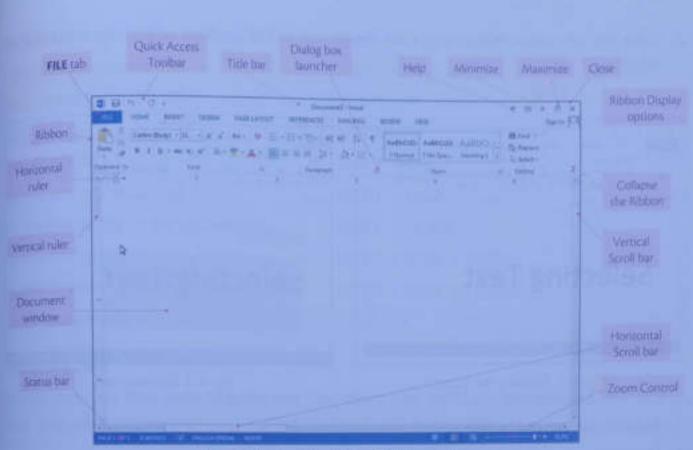
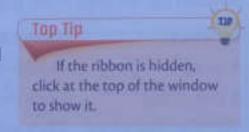


Fig. 6.1 Parts of the Word 2013 window

Ribbon Display Options

Clicking on this button gives you options to hide the ribbon, show ribbon tabs only, and show ribbon tabs and commands.



EDITING TEHT

Editing means making changes to your text. Word provides you with the tools to edit your text.

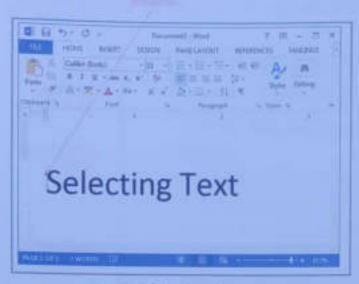
In some cases, you need to select text before you can make changes, so, let us learn how to do it. Text can be selected using the mouse or the keyboard. The selected text gets a grey background.

Selecting Text Using a Mouse

To select text using a mouse, follow these steps:

1. Place the cursor to the left of the first character to be selected (Fig. 6.2).

 Press the left mouse button and drag the mouse to the position where you want to slop selecting.



Corsor

Selecting Text

Fig. 6.2 Placing the cursor

Fig. 6.3 Text Selected

- 3. Release the mouse button.
- 4. The selected text gets highlighted in grey (Fig. 6.3).

You can also use the selection bar to select the text. The selection bar is the space between the left edge of the page and where the text begins (Fig. 6.3).

To Select	Mouse Action
A word	Double-click the word.
A line of text	Click the selection bar to the left of the line.
Multiple lines of text	Click and drag in the selection bar to the left of the lines.
A paragraph	Double-click the selection bar or triple-click anywhere in the paragraph.
A sentence	Press and hold CTRL and click anywhere in the sentence.
Entire document	Triple-click the selection bar.

Selecting Text Using a Keyboard

You can even select text using the keys on your keyboard. First, place the cursor to the left of the first character you wish to select. Then use the following key combinations:

To Select
One character to the left
One character to the right
One line up
One line down
To the end of the current line
To the beginning of the current line
To the end of the current document
To the beginning of the document

Press

SHIFT + ←

SHIFT + →

SHIFT + 个

SHIFT + 4

SHIFT + END

SHIFT + HOME

SHIFT + CTRL + END

SHIFT + CTRL + HOME

CTRL+A

Inserting Text

Entire document

Sometimes, you may want to insert text (i.e., place new text) between existing text. You may also want to overtype (i.e., replace) old text with a new one.

Before inserting or overtyping text, you should always check whether the insert or overtype mode is selected on the status bar.

To select the Insert/Overtype mode, follow these steps:

- 1. Right-click the status bar.
- The Customize Status Bar menu appears.
- Click Overtype. The Insert/ Overtype button appears on the status bar.
- 4. If the INSERT button appears on the status bar, it means the INSERT mode is selected (Fig. 6.4). If the OVERTYPE button appears on the status bar, it means the OVERTYPE mode is selected. If you click

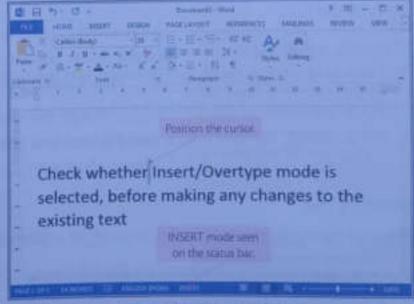


Fig. 6.4 Placing the cursor

the OVERTYPE button, it will change to INSERT.

To insert text in a document, follow these steps:

- Position the cursor to the right of the character where you want to insert new text (Fig. 6.4).
- Make sure that the INSERT mode is selected.
- Type the new text. When you insert new text, the existing text moves to the right (Fig. 6.5).

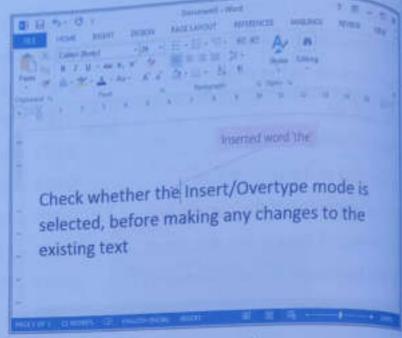


Fig. 6.5 Inserted text

Overtype

You can type and replace the current text with new text in the OVERTYPE mode. To change to the OVERTYPE mode, click **INSERT** on the status bar. **INSERT** changes to **OVERTYPE**

To overtype text in a document, you can follow the steps given below:

- 1. Place the cursor before the letter where you want to start overtyping.
- 2. Type the text.

Inserting a Blank Line

You can also insert a blank line between two existing lines. Do as given below:

- 1. Place the cursor at the end of the line after which you want to insert a blank line.
- Press ENTER. You will notice that the next line gets shifted down and a blank line is inserted.

Beleting Text

You can easily delete a character, a word, or a block of text in Word.

If you wish to delete a character, do the following:

1. Position the cursor to the left of the character to be deleted.

2. Press DELETE.

- 1. Position the cursor to the right of the character to be deleted.
- 2. Press BACKSPACE.

To delete a block of text:

- 1. Select the text to be deleted.
- 2. Press DELETE or BACKSPACE.

Whereas, to delete a word:

- I. Place the cursor to the left of the word to be deleted.
- 2. Press CTRL + DELETE.

- 1. Place the cursor to the right of the word to be deleted.
- 2 Press CTRL + BACKSPACE.

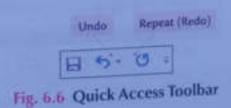
UNDO AND REPEAT COMMANDS

The Undo command is used to reverse the last command. To reverse the last command,

click the Undo button on the Quick Access Toolbar.

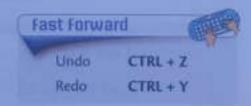
As long as there is nothing to redo, the Redo command will show up as Repeat command. The function of the Repeat command is to repeat the last thing you did in Word.

When you undo an action, the Repeat command changes to Redo. The Redo command is used to reverse the Undo action. To reverse the Undo action, click the Redo button on the Quick Access Toolbar (Fig. 6.6).





The Redo command does exactly the opposite of what the Undo command does. For example, if you type some text, the Undo command will clear or delete the text and then Redo will recover the text.



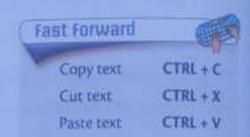
COPYING AND MOVING TEHT

To copy text from one place to another, you can use the **Copy** and **Paste** commands. The **Copy** command creates a duplicate of the selected text. The **Paste** command pastes the copied text at the position where the cursor is placed.

The Cut and Paste commands can be used to move text from one place to another in a document. The Cut command deletes the selected text from its original position. The Paste command then places this text at the position where the cursor is placed.

For copying (or moving) and pasting text, follow these steps:

- 1. Select the text to be copied.
- 2. Click the HOME tab, if it is not already selected.
- In the Clipboard group, click Copy (or Cut) [Fig. 6.7(a)]
- Position the cursor at the location where you want to paste the text.
- 5. In the Clipboard group, now click Paste [Fig. 6.7(b)].



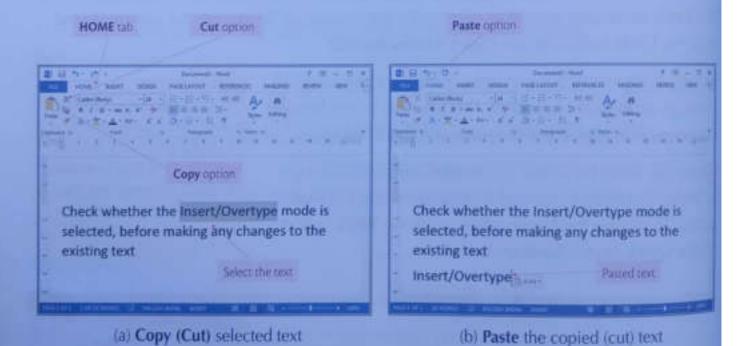


Fig. 6.7 Copy (Cut) and Paste options

PRACTICE TIME



Haider wants to create a document in Word 2013 having some riddles for kids. Help him create the document and select the word 'Riddles', the first sentence and then the entire document. He then has to do the following tasks:

- L. Insert the word 'Funny' before the word 'Riddles' (heading).
- ii. Shift the third riddle to the second position.
- III. Bring the riddle back to its original position.

SOLUTION

- 1 Start Word 2013
- 2. Type the heading as Riddles.
- Type the riddles.
- 4. Save the file as 'Riddles'.
- To select the word 'Riddles', double-click it.
- To select the first sentence, press and hold the CTRL key and left-click anywhere in the first sentence.
- To select the entire document, press CTRL + A.
- Riddles

 1. What has to be broken before you can use it?

 Ans. An ess.
 2. What belongs to you but it stred more by others?

 Ans. You name

 3. What is as big as an elephant, but weight nothing at all?

 Ans. The shadow of un elephant
- 8. Now, to insert the word 'Funny' before the word 'Riddles', follow these steps:
 - a. Make sure that the INSERT mode appears on the status bar
 - b. Click before 'Riddles' to place the cursor to the left of 'R'
 - c. Type the word 'Funny'
 - d. Press the SPACEBAR key to insert a space.
- 9. To shift the third riddle to the second position, do the following:
 - a. Select the riddle and its answer by clicking and dragging in the selection bar next to the riddle and its answer.
 - b. Click the HOME tab.
 - c. In the Clipboard group, click Cut
 - d. Position the cursor at the location where you want to place the text
 - e. Make sure that the HOME tab is selected. In the Clipboard group, click Paste.
- Now, to bring the riddle back to its original position, click the Undo button on the Quick Access toolbar.





Computer Manners





Do not pull or push the keyboard too hard. It may damage the wire connected to the keyboard.



Tricky Terms

Editing making changes to the text Insert adding text to an already existing document

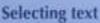
Undo reversing the last command Redo reversing the Undo command Repeat carrying out the last command once more

Move moving text from one position in the document to another

Copy creating a duplicate of the text, leaving the original text unchanged



Memory Bytes



- To make changes, you may need to select the text before performing any operation
- The selected text gets a grey background.

Editing text

- Blank lines can be inserted in an already existing document by pressing the ENTER key.
- You can delete a character, a word, or a block of text.

 Before inserting or overtyping text, you should always check whether the INSERT or OVERTYPE mode is selected.

Undo and Repeat

- The Undo command is used to reverse the last command.
- The Repeat command carries out your last command once more.
- The Redo command is used to reverse the Undo command.

OXFORD





- Adupticate of the text can be created using the Copy and Paste commands.
- Text can be moved from one position to another using the Cut and Paste commands.

EHERCISES



Objective Type Questions

CAMPBERSON	alsolve a	mills then	ASSESSMENT OF THE PARTY OF THE	ALC: UNKNOWN
sill in the	manks a	with the	correct	words.

Clipboard copy Redo FILE Save

- a. The keyboard shortcut to the selected text is Ctrl + C.
- b. The Save option is available on clicking the tab.
- c. The command is used to reverse the Undo action.
- d. The button appears on the Quick Access toolbar.
- e. The Cut option is available in the group of the HOME tab.

2. Choose the correct option.

- a. To select a paragraph
 - i. Double-click the selection bar
- ii. Triple-click anywhere in the paragraph

iii. both (i) and (ii)

- iv. none of these
- b. To select one character to the left, press
 - i. SHIFT + ← ii. SHIFT + ↑
- iii. CTRL + ←
- iv. CTRL + 4

- Keyboard shortcut for Undo command
 - i. CTRL + Y
- ii. CTRL + Z
- iii. CTRL + X
- iv. none of these

- d. To delete a character to the left of the cursor, press
 - I. DELETE
- II. ENTER
- iii. BACKSPACE
- iv. none of these

- e. The keyboard shortcut for the Paste option is

 - i. CTRL + V II. CTRL + C
- iii. CTRL + X
- iv. none of these

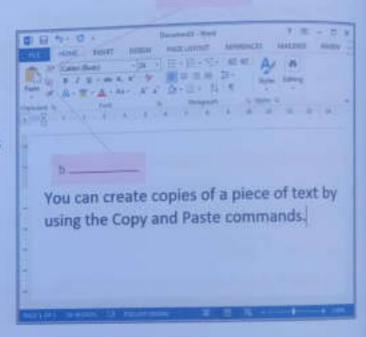
Descriptive Type Questions

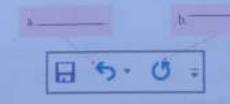
1. Answer the following.

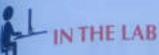
- a. What are the functions of horizontal and vertical scroll bars?
- b. Imagine you have written an essay on whales but you need to add more information to it.
 What steps will you take to insert additional information?
- c. Now you want to replace the opening paragraph in your essay on whales with new text. Explain how you would do this.
- d. What is the difference between 'Undo' and 'Redo' commands?
- e. Discuss why you would use the 'Copy' command instead of the 'Cut' command.

Application-Based Questions

- a. Observe the figure given on the right and answer the questions given below.
 - Label the commands (a) and (b) in the figure.
- ii. Name the tab and the group that has the Paste option.
- b. Sharmeen has mistakenly deleted the text she had typed in her document. She wants to get it back and save the document. Can you help her with the right options by labelling the figure given below? Name the toolbar where she will find these options.







- I trian is interested in collecting amazing facts about animals. His teacher has suggested that he should create a document in Word and type those facts. Help him create a neat document in Word giving some amazing facts about animals.
- 2. Irum has created a list of her favourite storybooks in Word. Do you like reading storybooks too? Make a list of ten of your favourite storybooks in Word and compare it with that of your friends.
- 3. Jehan recently visited a grocery store with her mother. Her mother now wants her to make a list of items she would like to purchase the next time she visits that store. Help Jehan create a document in Word and make that list
- 4. Sarim's English teacher has asked him to create a document in Word and write a paragraph on the topic 'My likes and dislikes'. You, being Sarim's friend, should help him create an attractive document.

GROUP PROJECT

in your group, share your 'favourite things' list and create a new Word document by combining all this information together into one new list, 'Our favourite things'. Apart from using 'Copy' and 'Paste' commands from each other's word documents, can you also use the 'Insert' or 'Overtype' mode to help you create this new list? Using the keyboard shortcuts may help. It's a complicated and fiddly challenge but helps you work together and develop your computer skills. Have fun!

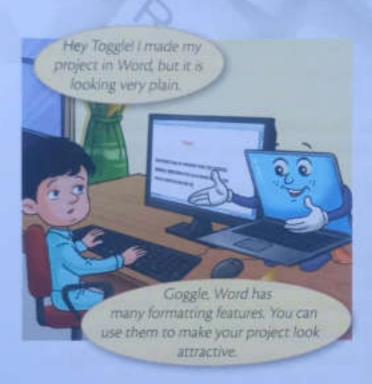
TEACHER'S NOTES

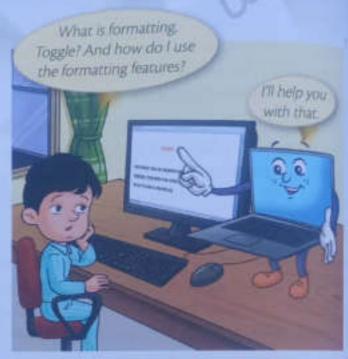
- Ensure that students are comfortable using both mouse actions and keyboard shortcuts for simple commands like Cut, Copy, and Paste.
- The students could be given practical situations where editing the text is useful rather than creating an entirely new document.
- Emphasise the importance of switching off the computer entirely when students are done using it.





Formatting Text in Word 2013





You have already learnt how to edit text in Word 2013. In this chapter, you will learn how to format text.

Formatting is the process of changing the general arrangement and appearance of text, i.e., improving the appearance of the text by using various fonts, font colours, font sizes, and font styles.

A font is a set of letters, numbers, or symbols of a given size and design that may be displayed or printed.

Settings that are standard or pre-defined in a software are called **default settings**.

Formatting helps to make changes to the default settings. It also helps in highlighting important text in a document and makes the text look more attractive.

In this Chapter

- Character Formatting
- Highlighting and Aligning Text
- Applying Borders and Shading

CHARACTER FORMATTING

character formatting means displaying text in a certain manner. Character formatting consists of text properties-bold, italic, underline, font type, font size, font colour, etc.

In Class 2, you have already learnt how to change the font colour and font size. Let us now look at some more formatting options available in the Font group.

character formatting Using the Ribbon

To apply character formatting to your text using the commands on the ribbon, follow the steps below:

- 1. Select the text to be formatted.
- 2. Click the HOME tab. The Font group on the HOME tab offers a quick way to apply some of the most commonly used character formatting options.
- 3. The options available in the Font group are shown in Figure 7.1.
 - a. Click the drop-down menu arrow of the Font type box and select a new font.

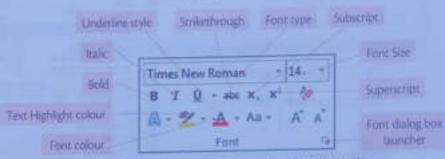
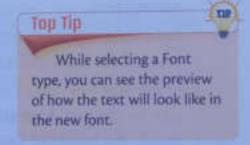


Fig. 7.1 Font group on the HOME tab

- b. Click the drop-down menu arrow of the Font Size box and select a font size.
- c. Click the drop-down menu arrow of the Font Color button and select the desired colour.
- d. Click the Bold, Italic, or the Underline buttons, to make the text bold, italic (slanted), or underlined, respectively.
- e. To change the underline style and colour, click the drop-down menu arrow of the Underline button and select a new style and/or colour.
- f. To give a special effect to the text, such as strikethrough, to make a selection a subscript, or a superscript, click the buttons marked in Figure 7.1.



Top Tip The default font in Word 2013 is Calibri. Default font size is 11. Default font style is Regular. Default font colour is Black.

Character Formatting Using the Font Dialog BOH

If you need more formatting options, you can use the Font dialog box. To open the Font dialog box do as follows:

- Select the text.
- Click the HOME tab.
- 3. In the Font group, click the Font dialog box launcher (Fig. 7.1). The Font dialog box appears (Fig. 7.2).
- 4. Click the Font tab.
- 5. Select the following options in the Font dialog box:
 - a. In the Font box, select a font for the text.
 - b. In the Font style box, select the font style-Regular, Italic, Bold, or Bold Italic. Regular refers to normal text.

Italic means slanted text.

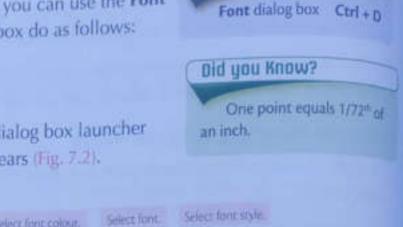
Bold means darker than normal text.

Bold Italic means that the text is both bold and italic.

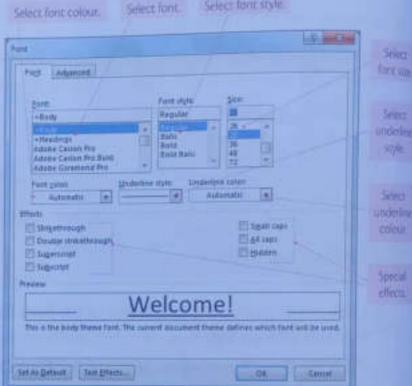
c. In the Size box, select the

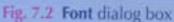
size for the text. Font size means the height of letters or other characters. Font sizes are measured in units called points.

- d. From the Font color drop-down list, select a colour for the text.
- e. From the Underline style drop-down list, select the underline style you want.
- f. From the Underline color drop-down list, select the colour for the underline.
- g. You can also select some special effects from the Effects list by selecting the desired check boxes.
- 6. Click OK.



Fast Forward











TEHL Effects

In Word 2013, there is a new button called **Text Effects** in the **Font** group. Using this button, you can apply different kinds of effects to any text in the document. You can change the look of the text by changing its colour, outline, or by adding effects like, shadows, glow, reflection, etc.

You can apply text effects by following the steps below:

- 1. Select the text.
- Click the drop-down menu arrow of the Text Effects button in the Font group on the HOME tab.
- 3. Select the desired effect (Fig. 7.3).

Text Effects button

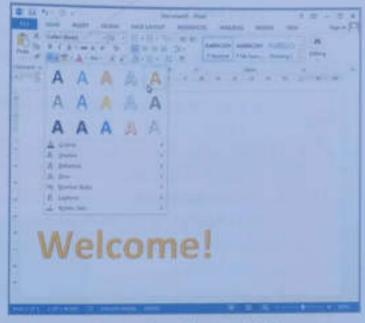


Fig. 7.3 Text effects applied

PRACTICE TIME

Osman is the sports captain of his class. His sports teacher is organising an Inter-Class Athletics competition. Osman has been asked to make a list of activities to be included in the competition. Help him create the document in Word and format it as follows [Fig. 2(a)]:

- a. Change the font, font size, and colour of the list.
- Apply special effect to the word 'Jump' in 'High Jump' so that it appears as 'High ^{Limb'}.
- c. Apply artistic effects to the heading.
- d. Save the document as 'Athletic Events'.

1. 100-metre Dash 2. Shot Put 3. Long Jump 4. High Arm

Fig. 7(a)

SOLUTION

- 1. Start Word 2013.
- Type the list.

- To change the font, font size, and colour:
 - a. Select the text
 - b. Click the HOME tab.
 - c In the Font group:
 - i. Click the drop-down menu arrow of the Font box and select the desired font.
 - ii. Click the drop-down menu arrow of the Font Size box and select the font size from the drop-down list.
 - iii. Click the drop-down menu arrow of the Font Color button and select the desired colour
- To apply special effects to the word 'Jump':
 - a. Select the word 'Jump'.
 - b. Click the HOME tab.
 - c. In the Font group, click the Superscript option.
- 5. Steps to apply artistic effects to the heading are:
 - a. Select the text.
 - b. Click the drop-down menu arrow of the Text Effects button in the Font group on the HOME tab.
 - c. Select the desired effect.
- 6. Click the Save button on the Quick Access Toolbar and save the document by the file name 'Athletic Events'.

HIGHLIGHTING TERT

Highlighting means making the text look different to draw the reader's attention towards it. Highlighted text has a coloured box around it.

You can highlight text by following the steps listed below:

- Click the HOME tab.
- 2. In the Font group, click the drop-down menu arrow of the Text Highlight Color button and select the colour you want.
- 3. The mouse pointer now changes to a penshaped pointer.
- 4. Select the text you want to highlight (Fig. 7.4). The text gets highlighted.

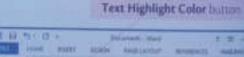




Fig. 7.4 Highlighted text

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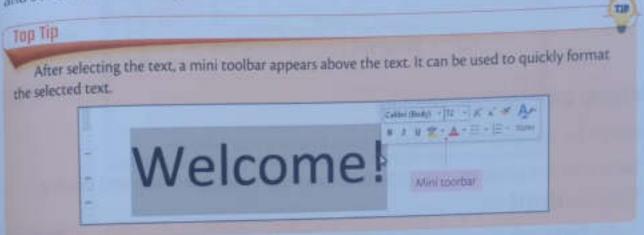


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Removing Highlighting

fiyou want to remove the highlight colour from the text, follow the steps given below:

- 1. Select the text from which you wish to remove highlighting.
- 2. Click the HOME tab.
- 3. In the Font group, click the drop-down menu arrow of the Text Highlight Color button and select No Color (Fig. 7.4).



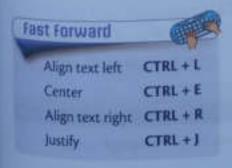
ALIGNING TEHT

Alignment is the manner in which text is placed between the margins of a page. You can

have your text lined up at the left side, at the center, or at the right side of the page

The steps to change the alignment of the text are as follows:

- 1. Select the text.
- Click the HOME tab.



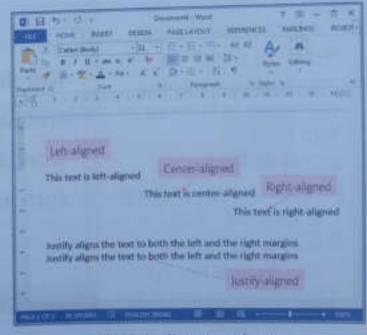


Fig. 7.5 Alignment of text

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3. In the Paragraph group, click the required alignment button—Align Text Left, Center Align Text Right, or Justify (Fig. 7.6).

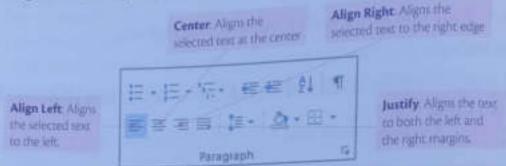
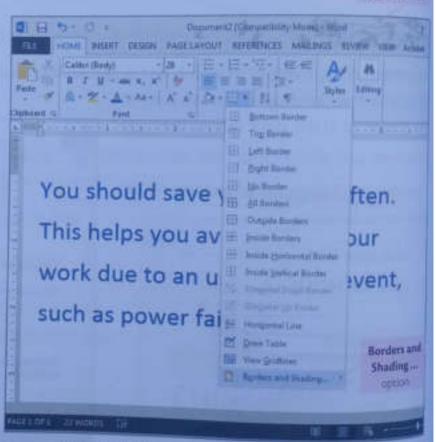


Fig. 7.6 Paragraph group on the HOME tab

APPLYING BORDERS AND SHADING

The steps for applying borders and shading to text are as follows:

- 1. Select the text or paragraph(s) to which you want to apply borders and shading.
- 2. Click the HOME tab.
- In the Paragraph group, click the drop-down menu arrow of the Borders button and click Borders and Shading ... (Fig. 7.7).
- The Borders and Shading dialog box appears (Fig. 7.8).
- You can apply a border of your choice by following the steps below:
 - a. Click the Borders tab.
 - b. Choose the desired setting to apply (Fig. 7.8).
 - c. Now, select the style from the Style list. Style determines the type of line used for the border.



Borders hutter

Fig. 7.7 Borders menu in the Paragraph group

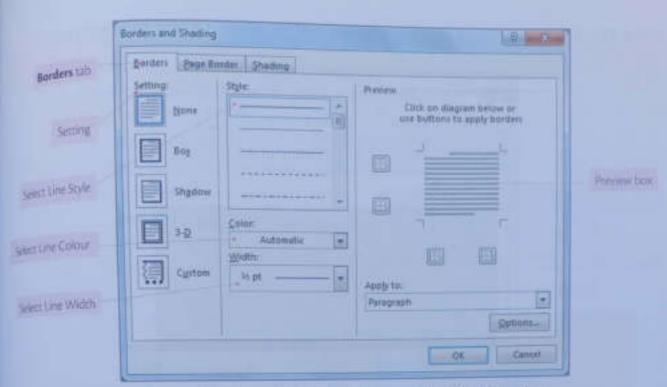


Fig. 7.8 Borders tab of the Borders and Shading dialog box

- d. From the Color drop-down list, select a colour for the line.
- e. From the Width drop-down list, specify the width of the line.
- f. The **Preview** box shows how the border will be applied to the selected text.
- The steps to apply shading (Fig. 7.9) are as follows:
 - a. Click the Shading tab.
 - Select the colour for the shading from the Fill dropdown menu.
 - Select the shading style you want to apply from the Style drop-down menu.
 - d. The effect of the selection appears in the **Preview** box.

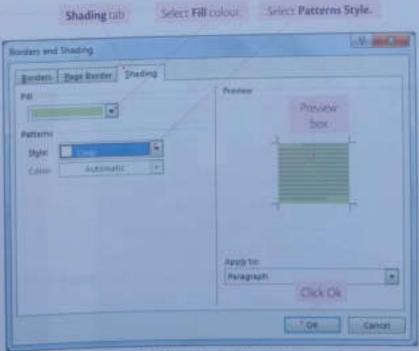


Fig. 7.9 Shading tab of the Borders and Shading dialog box

 Click OK. The borders and shading chosen will be applied to the selected text (Fig. 7.10).

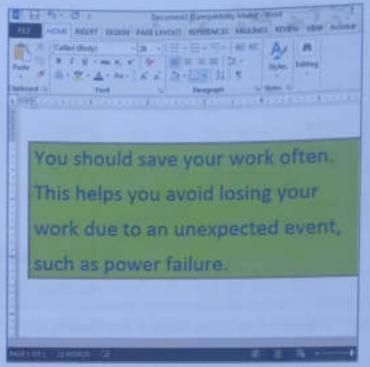


Fig. 7.10 Borders and shading applied to the text

PRACTICE TIME



Osman's sports teacher wants him to open the already saved document 'Athletic Events' and make the following changes in the document:

- a. Center-align the heading.
- b. Apply borders and shading to the list.

SOLUTION

- 1. Open the document 'Athletic Events'.
- To center-align the heading;
 - a. Select the heading.
 - b. Click the HOME tab.
 - c. In the Paragraph group, click the Center button.
- 3. To apply borders and shading to the list:
 - a. Select the list.
 - b. Click the HOME tab.

- c. In the Paragraph group, click the drop-down menu arrow of the Borders button and click Borders and Shading
- d. The Borders and Shading dialog box appears.
- e. The steps to apply a border are as follows:
 - i. Click the Borders tab, and choose the desired settings to apply.
 - ii. Select a style from the Style scroll list.
 - iii. From the **Color** drop-down menu, select the colour for the line.
 - From the Width drop-down list, specify the width of the line.
- f The steps to apply shading are as follows:
 - L. Click the Shading tab.
 - ii. Select the colour for the shading from the **Fill** drop-down list.
 - iii. Select the shading style you want to apply from the **Style** drop-down list.
- g. Click **OK**. The chosen borders and shading style will be applied to the selected text [Fig. 7(b)].

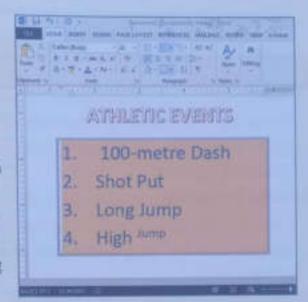


Fig. 7(b)

Computer Manners





Sit close to your keyboard and position it so that it is directly in front of your body. Make sure the keyboard is placed directly in front of you.

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Tricky Terms

Formatting changing the general arrangement and appearance of text

Default Settings settings that are standard or pre-defined in a software

Alignment the manner in which text is placed between the margins of a page Highlighting making the text look different to

draw the reader's attention



Memory Bytes

Formatting helps in highlighting important text in a document, and makes the text look more attractive.

Character Formatting

- · Formatting features are used to improve the appearance of text using various fonts, font colours, etc.
- · Character formatting consists of text properties-bold, italic, underline, etc.
- The Font group on the HOME tab offers a quick way to apply some of the most commonly used character formatting options.

Highlighting Text

Important text can be highlighted by

clicking the Text Highlight Color button in the Font group on the HOME tab selecting the text to be highlighted.

Aligning Text

Text can be left-aligned, center-aligned. right-aligned, or justified in a document. with the help of the appropriate buttons in the Paragraph group on the HOME tab.

Borders and Shading

You can apply borders and shading to the selected text by clicking the Borders drop-down menu button in the Paragraph group on the HOME tab.

#*EXERCISES



Objective Type Questions

1. Fill in the blanks with the correct words.

character Borders center justify Font

- a. alignment option is used to align the text to both the left and right margins
- b. The Font group on the HOME tab offers a quick way to apply some of the most commonly used formatting options.

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- c. The keyboard shortcut for align is Ctrl + E.
- d. Clicking the HOME tab displays the group.
- e. The Borders and Shading option is available in the drop-down menu.

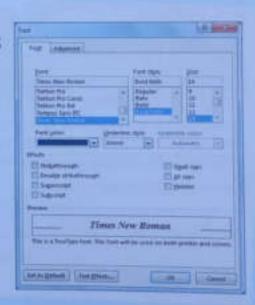
Descriptive Type Questions

1. Answer the following.

- a. List at least 5 features that can be used to format a report.
- b. What must you do first in order to change the font type, size, and colour of a particular text?
- c. Would you consider using text effects for writing an application for sick leave to your principal? Give reasons for your answer.
- d. If you want to draw the attention of the readers towards the key points in your study notes, which tool would you use?
- Outline the steps needed to create borders for a flyer you are making for the Spring Carnival in your school.

Application-Based Questions

- a. Observe the given figure and answer the following questions:
 - i. Name the dialog box that is shown in this figure.
 - ii. Name the font that is selected.
 - iii. What option has been selected in the Font style box?
- Usama has written a paragraph on the topic 'Importance of Trees'. He wants to make the text look different to draw the reader's attention.
 - i. Which feature of Word should he use?
 - ii. Name the tab and the group that has this feature.





IN THE LAB

 Shoaib's teacher has asked him to create a document in Word and write a few lines about his school. Help him create the document and also highlight the main words in the document.

- Ghazanfar has been asked to write a paragraph on 'Uses of Water'. Help him create a document in Word and also to use the formatting features (bold, underline, colour, etc.) of Word.
- Sana is fond of reading stories. Her computer teacher has asked her to type a short summary
 of one of her favourite stories in Word. She wants her to change the font, font size, and
 colour of the text as well as, center-align the heading and justify-align the paragraphs. Write
 and format a similar summary of your favourite story.
- Have you attended a marriage or a party recently? What was on the menu? Make a list in Word and also apply borders and shading to the list. Highlight the item or items you liked the most.
- Choose a topic on nature, football, a famous person in history, or a famous athlete. Your task is to write a descriptive paragraph about one of these topics using Word 2013. The important task here is not necessarily what you write but how well you format the Word document.
- Once you have written and formatted the paragraph in Task 5 above, do the following tasks:
 - Type an appropriate heading and explore different ways of formatting it.
 - · Use different fonts and colours for each sentence.
 - Use a different font size for the word which you think is the most important in each sentence.
 - Highlight the sentence that you want the reader to notice the most.

GROUP PROJECT

Use Word 2013 to create a poster with a message. As a group you will need to select a topic that you all feel passionate about. It might be to do with healthy eating, healthy lifestyle, dangers of smoking, protecting the environment, saving tigers, staying safe online, or staying safe in the community, etc. You now have the fantastic opportunity to use all of the new Word 2013 skills you have learned to create an amazing poster to raise awareness for your message.

Remember the following points:

- · Apply text effects to the headline.
- · Format the text in different fonts and colours.
- Decide on the alignment of the text to create a pleasing design.
- Add borders.
- · Select a shading style.

** TEACHER'S NOTES

- The children might need help in using the formatting features of Word. It would be useful to give them a demonstration on how to improve the appearance of a Word document.
- . Encourage them to experiment with and observe the changes in colour, fontsize, style, etc.

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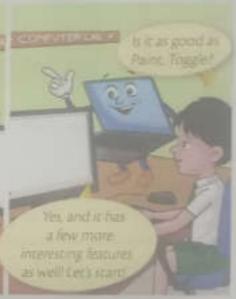
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Enjoy with Tux Paint







Tux Paint is a software, like Paint, meant for drawing and painting. It has a number of tools to help you draw and colour. It also has interesting sound effects, so keep the speakers of your system on!

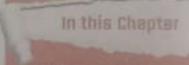
STARTING TUH PAINT

Click Start ➤ All Programs ➤ Tux Paint ➤ Tux Paint (Windowed) (Fig. 8.1 (a) - (c))

Or

Double-click the Tux Paint icon on the desktop.

on the desi



- + Starting Tux Paint
- * Main Street
- · Drawing Took
- + Other Controls

You get two choices while opening Tux Paint. You can either open it in full-screen by selecting Tux-Paint (Full Screen) or open it in a new window by selecting Tux Paint (Windowed). Usually it is better to open Tux Paint in a new window because sometimes in full screen all the options cannot be seen.

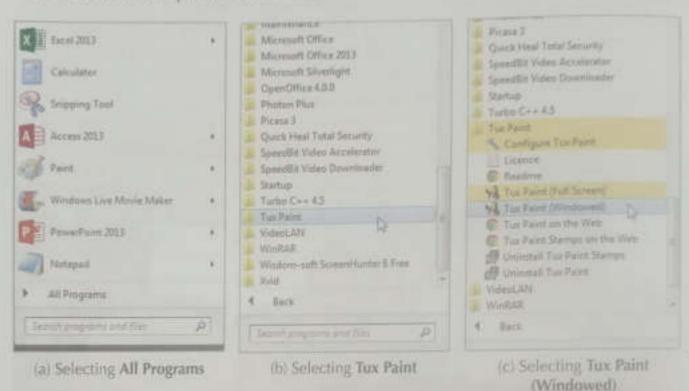


Fig 8.1 Starting Tox Paint

- The title screen appears (Fig. 8.2).
- As the program is loaded into memory, press any key or click the mouse to continue.

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After about 30 seconds, the title screen will go away on its own.

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 The main screen appears (Fig. 8.3).



Fig. 8.2 Title screen of Yor Paint

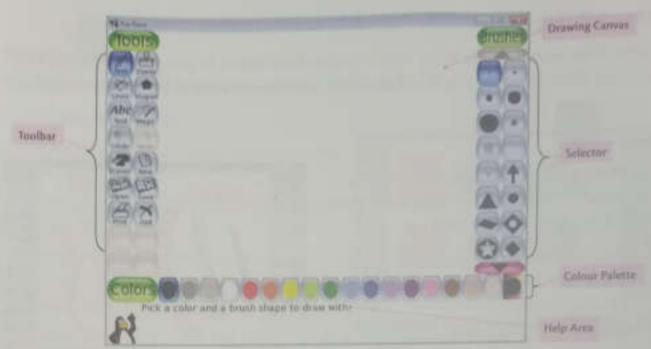


Fig. 8.3 Main screen of Tox Paint

MAIN SCREEN

The main screen is divided into five parts:

Toolbar It is on the left side of the main screen. It contains drawing and editing tools.

Drawing Canvas It is at the center of the main screen. You draw your figures here.

Selector It is on the right side of the main screen. If you select the Brush tool, for example, the selector shows the various sizes of brushes available.

Colors A palette of colours is found below the drawing canvas. It has 18 colours. The first 17 colours are fixed. The 18th colour on the right is one that you are allowed to change, just click on the colour here. This will open the color box (Fig. 8.4).



Fig. 8.4 Color hox

As you move over the colours, the same colour will appear in the square on the upper right side. Click the colour you like. You will now see this colour in the 18° ring of the colour palette.

Help Area It is present at the bottom of the main screen. It provides tips and other information about the selected tool while drawing on the canvas.

DRAWING TOOLS

Some of the drawing tools in Tux Paint are described below. As you use these tools, you will hear different sounds, so it will be fun to keep the speakers of your system on!

Paint



The Paint tool lets you draw stars, arrows, and also freehand (done by hand without the help of any devices). The steps are:

- Click the Paint tool. A brush will appear as you take the mouse pointer to the drawing canvas.
- Select a colour from the colour palette by clicking it.
- Also select a size for the brush from the selector on the right.

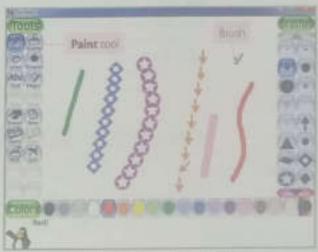


Fig. 8.5 Using the Paint tool

- Click and hold the left mouse button and move the mouse pointer on the drawing canvas (Fig. 8.5).
- 5. Release the mouse each time you finish a part of your drawing.

Lines



The Lines tool lets you draw straight lines. The steps are:

- 1. Click the Lines tool.
- Click a colour in the colour palette to select it.
- Select a thickness for the line from the menu on the right.
- Click and hold the left mouse button and move the mouse pointer on the drawing canvas (Fig. 8.6).
- 5. Release the mouse to draw your lines.

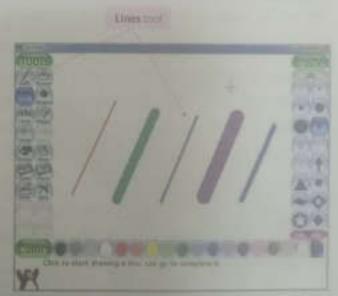


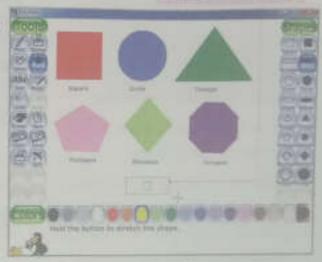
Fig. 8.6 Using the Lines tool



shapes

The Shapes tool lets you draw some simple, filled, and unfilled figures. The steps are:

- 1. Click the Shapes tool.
- 2. Click a colour in the colour palette to select
- 3. Choose the shape you want in the selector on the right.
- 4. Click to select the center, and to start drawing, click and hold the left mouse button and drag it to the size you want.
- 5. Release the mouse when you finish.
- 6. Move the mouse around to rotate the shape and click to fix it (Fig. 8.7).



Shape sool crowing securitie

Fig. 8.7 Using the Shapes tool

Tent



The Text tool lets you add text or numbers in the drawing area. The steps are:

- 1. Click the Text tool. A blinking line appears on the canvas. If the line does not appear. click anywhere on the drawing canvas.
- 2. Choose a colour from the colour palette.
- 3. Also select a text style from the selector on the right.
- 4. Type the text.
- 5. Press the ENTER key to move the cursor down one line or press TAB to move it to the right.
- 6. If you want to move the text you have typed to a new place, just click at that place on the drawing canvas before pressing ENTER. You will find that the line of text you have typed has moved to that location (Fig. 8.8)

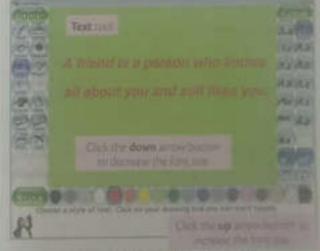


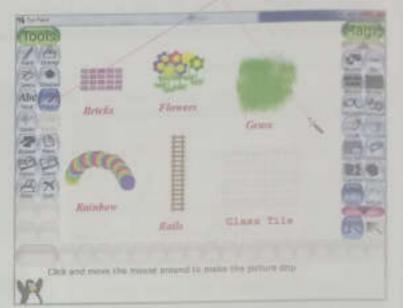
Fig. B.H Using the Text tool

Magic (Special Effects)



The Magic tool lets you add different kinds of special effects to your drawing. To add an effect do the following:

- Click the Magic tool and then a magic effect in the selector.
- You will see two buttons at the bottom of the selector.
- If the left button is highlighted, it means the effect can be applied to parts of the picture by clicking and dragging around the picture.
- If the right button is also activated, it means the effect can be applied to the entire picture also by clicking the picture once (Fig. 8.9).



Magic sol

Fig. 8.9 Using the Magic tool

Top Tip



backgrounds with outlines of images, or 3D photographs, that you can use in Tue Paint.

Eraser



The Eraser tool helps you erase or remove any portion of a drawing. The steps are:

- 1. Click the Eraser tool.
- Click to select an eraser of the size you want from the selector.
- 3. Click and hold the left mouse button and move the mouse pointer on the drawing canvas to erase or remove the whole, or a part, of the drawing (Fig. 8.10)
- Release the mouse when you finish.



Fig. 8,10 Using the Eraser tool

PRACTICE TIME



The Computer Science teacher has asked the students of Class III to select a statuer image in Tux Paint, and colour it using the Fill option of the Magic tool. One image has been Can you write down the steps to do it?

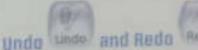


SOLUTION

- Double-click the Tux Paint icon on the desktop.
- Crick the New button. You will see the lot of background and starter images.
- Double-click the image that you want, or select the image and click the Open button at
- 6. Click the Magic tool. On the right, click the Fill tool. Click a colour in the Color palette.
- Now click another colour in the Color palette. Click inside the area you want to fill with
- 8. Repeat step 7 until you fill the entire image as you do in your drawing book.

OTHER CONTROLS

There are other tools for various functions like to undo or redo, to save, and to open a drawing. There is also a tool for starting a new drawing.





Clicking Undo will cancel the last drawing action,

Clicking the Redo button will redo the drawing action you just 'undid' (cancelled) with the Undo button.

Note: You can Undo/Redo more than once.



New



The New tool will start a new drawing. The steps are:

- 1. Click the New button.
- A dialog box will appear where you can choose from a solid background colour, or a starter image, on scrolling down (Fig. 8.11).

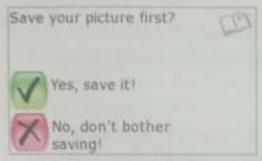


Fig 8.12 Save dialog box



Fig. 8.11 Choose background

- 3. Just double-click it, or click it and click Open.
- If you have double-clicked a starter image, a dialog box appears (Fig. 8.12).
- Click Yes, save it! It will create a new picture file. If the dialog box does not appear, continue and then save the picture by clicking Save in the tool box.

Save



The Save tool will save the current drawing. If the picture is not saved before, it will create a new file. If the picture is already saved, a dialog box appears (Fig. 8:13).

- Click Yes, replace the old one! to save it over an older version.
- . Click No, save a new file! to save it as a new file.

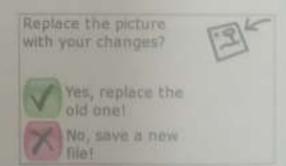


Fig. 8.13 Replace dialog box.

Open



The Open tool is used to load a picture that has been saved earlier. Clicking this button will show a list of all the pictures you have saved. Just double-click the picture to open it.

Open CTRL+O
Save CTRL+5
Print CTRL+P

Print



The **Print** tool is used to print the picture using a printer. On clicking this tool, a dialog box appears (Fig. 8.14).

- Click Yes, print it! to print the picture using a printer.
- Click No, take me back! to go back to the previous screen.

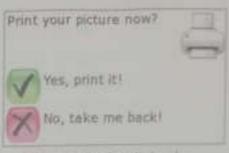


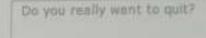
Fig. 8.14 Print dialog box

Duit



The Quit button is used to close Tux Paint. On clicking this button, a dialog box appears (Fig. 8.15):

- · Click Yes, I'm done! to quit Tux Paint.
- Click No, take me back! to move back to the previous screen.





Yes, I'm done!



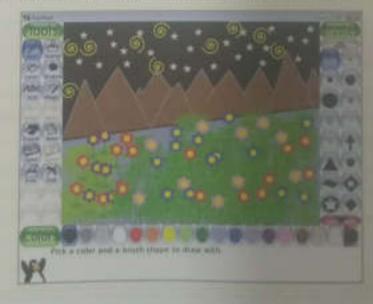
No, take me back!

Fig. 8.15 Quit dialog box

PRACTICE TIME



The students of Class III have to draw a picture in Tux Paint. They have to use as many of the drawing tools they have learnt as they can. One example is given below. Can you draw the same picture? You may also draw any other picture from your imagination.



SOLUTION

- 1. Double-click the Tux Paint son on the Desktop
- 2. The Title screen appears. Press any key. The Main screen appears.
- 3. Click the New button. The list of background and starter image appears.
- 4. Double-click the white background
- 5. Draw a line in the middle of the picture using the Lines tool.
- 6. Draw hills using the Lines tool.
- Fill the part above with black colour and the part below with blue colour using the Magic tool.
- 8. Oraw stars and circles using the Brush tool.
- 9. Draw grass and flowers of different colours using the Magic cool
- 10. Fill the hills with brown colour using the Magic rool.
- 11. Finally, use the Save tool to save your picture.



Tricky Terms

Tux Paint a software for drawing and painting

Drawing canvas an area at the center of the main screen used to draw figures

Selector present on the right side of the main

screen. If you select the Brush tool, the selector shows the various sizes of brushes available

Starter image a background with an outline of the image or a 3D photograph



Memory Bytes

- Tux Paint is a software used for drawing and painting.
- The main screen of Tux Paint is divided into five sections—Toolbar, Drawing canvas, Selector, Colors, Help area.
- The various drawing tools found in Tux

Paint are the Paint tool, Lines tool, Shapes tool, Text tool, Magic tool, and the Eraser tool.

Other tools are the Undo tool, Redo tool.
 New tool, Save tool, Open tool, Print tool, and the Exit tool.

**EHERCISES

Objective Type Questions

1. Fill in the blanks with the correct words.

bc	ottom	drawing	open	Text	undo	
a.	The	····· canv	as is present at	the center of	the main screen.	
bi	The	tool	is used to load	the already sa	ved pictures.	
t.	The Help	area is present at	the	of the	Tux Paint screen.	
					pers in the drawing area	
	Committee Commit	com				

2. Choose the correct option.

- a. The command used to save a picture.
- i. New ii. Open iii. Save iv. Save Ar b. The tool used to draw geometrical figures.
- i. Line ii. Brush iii. Shapes iv. Ma
- c. This tool is used to draw free hand.
 i. Brush ii. Line iii. Text iv. Shape
- d. The tool used to move out of Tux Paint.
 - i. New ii. Print iii. Quilt is, Exit
- e. The tool used to cancel the last action you undid.
 - i. Undo ii. Redo iii. New Iv. Save

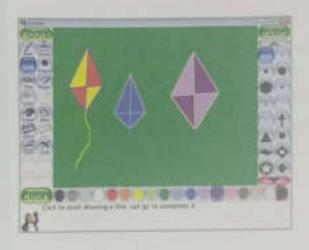
Descriptive Type Questions

1. Answer the following.

- a. Describe the functions of the different parts on the main screen of Tox Paint.
- b. What is the disadvantage of opening Tux Paint in full screen?
- c. Which section of the main screen would you refer to if you needed assistance in printing out the picture on the drawing canvas?
- d. List the available options in the Paint tool to draw on the canvas.
- e. Give an example of a drawing where you might need to use lines with varied thickness.

Application-Based Questions

a. Name the tool used to write 'Snowman' in the picture given below. Which tool would you use to draw the face and body of the Snowman?





- b. Essa was asked by his teacher to draw two kites in Tux Paint. While drawing, he made three kites instead of two. He needs to rub out one kite and show it to his teacher.
 - Which tool should he use to remove the kite in the middle?
 - ii. Which tool is used to fill colour in the kites?

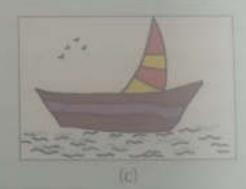


IN THE LAB

- The class teacher has asked the students of Class III to make a poster on any one of the topics given below. Can you draw a poster in Tux Paint on any one of the topics using the Lines, Paint, Text, Shapes, and the Magic tools?
 - · Use Paper Bags
- . Save Electricity
- · Save Water
- Save Environment.
- The Computer Science teacher wants Class III to practise the tools available in Tux Paint by trying to draw the following:







Can you draw the same in Tux Paint?

- As you know, you can also type text in Tox Paint. Try to write four lines on any one of the topics given below. Each line should be of a different colour. Also, draw a matching picture or pictures.
 - · Five cartoons I like most

- My school address and telephone number
- · My house address and contact number
- · Five fruits I like most

- · Five vegetables I like most
- Draw a square, a circle, a triangle, and a rectangle, in Tux Paint using the Shapes tool and fill them with different colours.
- It's not called Magic for Nothing! Explore the different kinds of special effects in the magic tool in Tux Paint and see what you can use to create a drawing of your dream school. (Just make sure you show the green fields around it!)

GROUP PROJECT

The sky really is the limit in this task!

Your massive challenge as a group is to draw the solar system using Tux Paint. No small task! It doesn't have to be an accurate scaled picture but should include the essentials (planets and stars). Explore various tools to draw and paint planets and their orbits, with the Sun in the centre. And if you can add in a secret spaceman or a spacewoman, that would be fun. Work together as a team, helping one another and taking turns to use the software.

TEACHER'S NOTES

- Tox Paint software can be downloaded from the site http://uxpaint.org. Please download it along with the stamps collection.
- Students should be made familiar with the five sections of the Tux Paint main screen.
 Encourage them to create images right from the beginning of the fession.
- . It may be ensured that students are able to start and exit Tus Paint on their own.
- Students should know the difference between saving over an old file and saving as a new file.

KEYBOARD SHORTCUTS

CTRL + L Left Align CTRL+C Copy CTRL + E Center Align CTRL+V Paste. CTRL - R Right Align CTRL + X Cut CTRL = Z Undo CTRL - N New Drawing Redo CTRL+Y CTRL = W Resize and Skew Open Select All CTRL + A CTRL + P CIRL + D Open Font

CONTORD

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قومی ترانه

یاک مرزشن شاو باد کشور حسین شاد باد تو نشان عزم عالی شان ارض پاکستان مرکز بیتین شاد باد

پاک سرزین کا نظام تُوت اُخوت عوام قوم، نلک، سلطنت پاینده تابنده باد شاد باد منزل مراد

يَرْجِم ستاره و بلال رَجِيرِ ترقَّى و كمال ترجيرِ ترقَّى و كمال ترجيرِ ترقَّى و كمال ترجيرِ ترقَّى و كمال ترجيان ماضي، شان حال جان جان الجلال ماية خدائ ذوالجلال



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