1. Computer System

LET'S PLUG-IN (Page no. 7)

a.   i. Mouse

b.   ii. CPU

c.   iii. Monitor

d.   iv. Keyboard
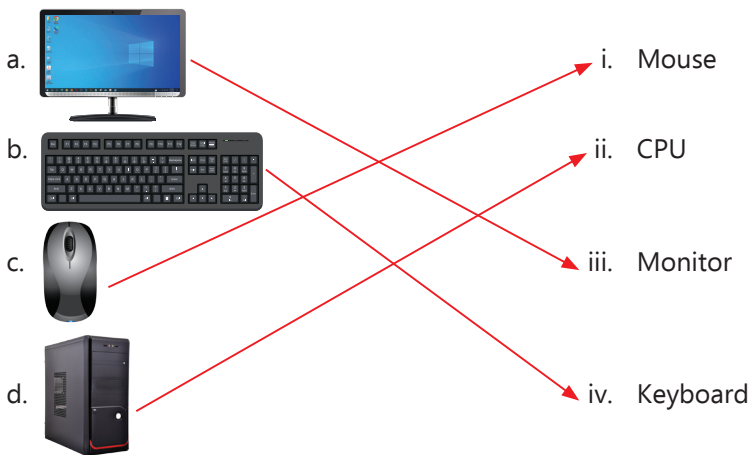
LET'S CATCH UP (Page no. 12)

Input   Process   Output

TEST YOUR SKILLS

1.   a. (i)   b. (ii)   c. (i)   d. (i)

      e. (i)   f. (i)   g. (iii)

2.   a. Devices   b. Hardware   c. Application Software

      d. Operating system   e. ALU

3.   a. A joystick is an input device used to play games on a computer.

      b. A touchscreen is an input device used to enter data by simply touching the screen.

      c. Printer: A printer is used to print the result of the work done by the computer on paper. We can print documents, drawings, images, etc., in black & white as well as in colour using a printer. There are two types of printers.

Laser Printer: It uses a laser beam to print the hard copy.

Inkjet Printer: It sprays ink on the paper to print the hard copy.

d. The CPU (Central Processing Unit) is the processing device that works on input and sends the result to the output devices.

e. A computer works on the IPO (Input-Process-Output) cycle. It receives input from the user through input devices, processes it using the CPU and gives back the output using output devices. This cycle is known as IPO cycle.

f. A software that controls and manages all the activities of a computer system is called System software whereas, the software that are designed to perform some specific type of jobs on a computer are called Application software.

4. a. Headphones

   b. Printer

TECH ZONE

LET'S SOLVE

1.

Machine	Input	Process	Output
Calculator	Pressing Numbers and Symbols	calculation in being done	Calculated Answer
Water purifier	Dirty water	Purifies Water	Clean Drinking Water
Washing machine	Dirty Clothes	Washing Clothes	Clean Clothes

2. a. M O U S E

   b. J O Y S T I C K

   c. W E B C A M

d.	K	E	Y	B	O	A	R	D

e.	P	R	I	N	T	E	R

LET'S EXPLORE

Do it yourself.

2. Windows 10

LET'S PLUG-IN (Page no. 19)

Do it yourself.

LET'S CATCH UP (Page no. 24)

1. Desktop   2. Icon   3. Start button   4. Start menu

TEST YOUR SKILLS

1. a. (iii)   b. (i)   c. (iii)   d. (iii)

2. a. (F)   b. (T)   c (F)   d. (F)   e. (T)

3. a. Windows 10   b. Minimize   c. Task view   d. Desktop   e. Live tiles

4. a. It shows different types of notifications for your computer such as, your Internet connection, or the volume level.

b. To change the background, follow the given steps:

Step 1: Right-click on the background and choose Personalize. A Settings dialog box appears.

Step 2: Click on Background in the left pane.

Step 3: Click on drop-down arrow located below the Background option in the right pane. Select Picture option from the drop-down list.

Step 4: Select any picture from the display.

Step 5: A preview of the desktop with the selected picture appears in the window. After choosing a picture, the Background will change automatically.

c. An icon is a picture or graphic representation of an application or a file.

d. Task View allows you to quickly move within your open windows and applications.

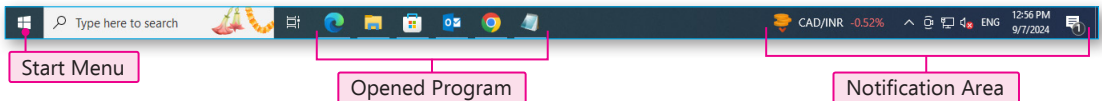5. a. Task View button

    b. Notification Area on the Taskbar

TECH ZONE

LET'S SOLVE

1.

Desktop Background

Icons

Start button
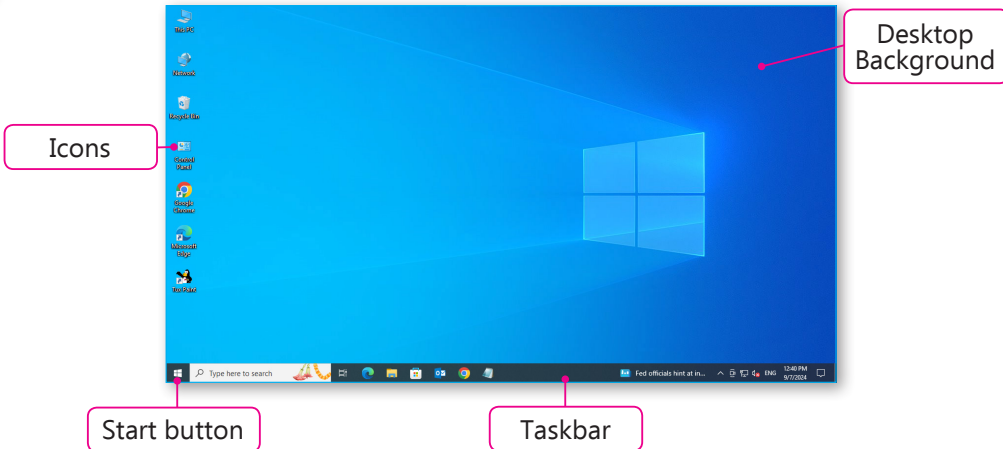
Taskbar

2. a. TASKBAR   b. DESKTOP   c. BACKGROUND   d. ICONS

LET'S EXPLORE

Do it yourself.

Periodic Assessment–1

(Based on chapters 1 & 2)

A. 1. Mouse   2. Keyboard   3. Light pen   4. CPU   5. Monitor
       6. Headphones   7. Projector

B. 1. Touchscreen 2. Pen drive   3. Smart board   4. Monitor   5. Joystick
       6. Printer

C.

Start Menu

Opened Program

Notification Area

D. 1. This PC   2. Folder   3. Recycle bin

3. Pivot Animator

Do it yourself.

LET'S CATCH UP (Page no. 35)

◯ Cone	◯ Cuboid	✓ Cone	◯ Cube
✓ Cube	✓ Cylinder	◯ Cube	✓ Sphere

TEST YOUR SKILLS

1. a. (i)   b. (ii)   c. (i)
2. a. Add Frame   b. Player Controls   c. Segment Handle   d. Status
3. a. **Pivot Animator** is a free and simple tool to make animations with stick figures. A stick figure is a drawing of a person made with just lines and circles.

   b. Saving an animation project means storing your animation project on your computer. Saved projects can be opened later or shared with others.

   c. Exporting an animation means turning your project into a finished file, like a GIF or video. This file can be watched on other devices or shared with others. When you export, the animation is saved in a way that doesn't need the software to play. You can use it outside the program.
4. a. Gunjan should use the Loop option in Pivot Animator to play her animation repeatedly without clicking the Play button each time.

   b. Segment Handle

TECH ZONE

LET'S EXPLORE

Do it yourself.

LET'S GET BETTER

Do it yourself.

4. Using Word 2016

Do it yourself.

    1. RIBBON   2. ZOOM SLIDER   3. TITLE BAR   4. FILE TAB   5.MINIMIZE

TEST YOUR SKILLS

1.   a. (iii)   b. (iii)   c. (i)   d. (iii)

2.   a. Typing   b. Ribbon   c. Close

3.   a. (T)   b. (F)   c (F)   d. (T)

4.   a. Word is used to:

- type letters, stories and reports, quickly and easily.
- present text beautifully and neatly using different colours, styles and effects.

b. To create a new document, follow these steps:

Step 1:   Click on File tab The Backstage view appears.

Step 2:   Select New option from the left pane.

Step 3:   Click on the Blank document option in the right pane.

c. In Word 2016, the toolbars and menus are replaced with the ribbon. It contains all the Tabs and Groups.

d. To save your document in Word, follow these steps:

Step 1:   Click on File tab. An Info screen appears.

Step 2:   Select Save or Save As from the left pane.

Step 3:   Select This PC option from the center pane. Then click on Browse option.

Step 4:   The Save As dialog box opens. Select the location of the file. Type a name for your file in the File name box.

Step 5:   Click on Save button.

5.   a. Text/Document Area

      b. File tab

TECH ZONE

LET'S SOLVE

a. Ctrl+N   b. Ctrl + S   c. Ctrl + O   d. Alt +F4

Do it yourself.

Periodic Assessment–2

(Based on chapters 3 & 4)

A. 1. **Pivot Animator** is a free and simple tool to make animations with stick figures. A stick figure is a drawing of a person made with just lines and circles. You can make them move in fun ways, like walking, jumping, or dancing.

2. Origin Handle acts as the pivot point for rotating the figure.

B.
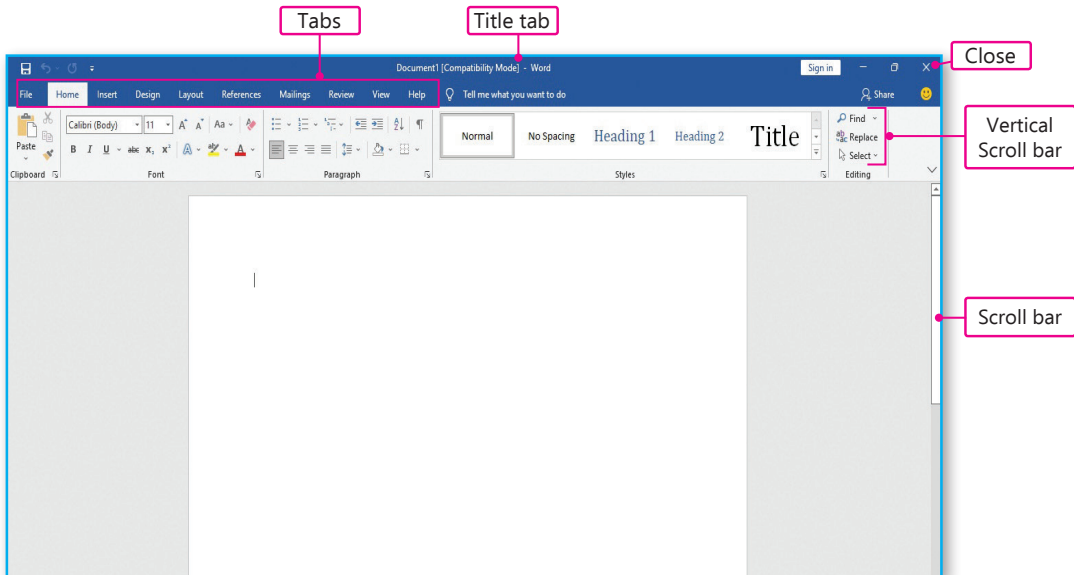
C. Raj and Aryan will use the Figure Tool, Rotate Handles, Next Frame, and Loop options in Pivot Animator to animate a rotating Earth.

Test Sheet–1

(Based on chapters 1 to 4)

Section A

A. 1. (i)   2. (iii)   3. (iii)   4. (iii)   5. (i)   6. (i)   7. (i)   8. (iii)

B. 1. Hardware   2. ALU   3. Desktop   4. Status   5. Ribbon

C. 1. (F)   2. (T)   3. (T)   4. (T)   5. (T)

D. 1. (ii)   2. (iv)   3. (v)   4. (iii)   5. (i)

Section B

A. 1. A Joystick is used to play games on a computer. It helps to control the different movements in the game.

2. A touchscreen is used to enter data by simply touching the screen. In this, finger acts as a pointing device and the object on the screen is pointed using a finger.

3. An icon is a picture or graphical representation of an application or a file. If you want to open or access an icon, double click on it.

4. Two components of the Pivot Animator are Frame Controls and Player Controls.

5. Ribbon: The toolbars and menus are placed by a Ribbon which is made up of Tabs and Groups.

B. 1. CPU is the processing device that works on input and sends the result to the output devices. It is a chip which is present inside the CPU box. CPU is also called the 'brain' of a computer as it is responsible for all the work done.

2. A computer works on the IPO (Input-Process-Output) cycle. It receives input from the user through input devices, processes it using the CPU and gives back the output using output devices. This cycle is known as IPO cycle.

3. **Pivot Animator** is a free and simple tool to make animations with stick figures. A stick figure is a drawing of a person made with just lines and circles.

4. To save your document, follow these steps:

   1. Click on File tab. An info screen appears.

   2. Select Save or Save As from the left pane.

   3. Select This PC option from the center pane. then click on Browser option.

   4. The Save As dialog box opens. Select the location of the file. Type a name for your file in the File name box.

   5. Click on save button.

5. The Notification Area is located at the right side of the Taskbar. It shows different types of notifications for your computer such as, your internet connection, or the volume level. By default, the Notification Area shows only a few icons but you can click the upward arrow on its left side to see the other options.

5. Editing and Formatting in Word 2016

LET'S PLUG-IN ∿∿📢 (Page no. 55)

Do it yourself.

1. L, Underline   2. C, Bold   3. R, Font Color

TEST YOUR SKILLS

1. a. (ii)   b. (ii)   c. (ii)   d. (iii)   e. (ii)
2. a. iii.   b. v.   c. iv.   d. ii.   e. i.
3. a. Ctrl+A   b. Font   c. Left   d. Enter
4. a. To select specific text in a document, follow these steps:

   Step 1: Place your cursor in front of the first letter of the word, sentence, or paragraphs you want to select.

   Step 2: Press and hold Shift key while you drag your cursor to select the text you want.

   b. Changing the appearance and arrangement of the text is called formatting the text.

   c. To apply an artistic border, follow these steps:

   Step 1: Click on Page Border tab in the Borders and Shading dialog box. On the Page Border tab, at the bottom, you will see a box called Art.

   Step 2: Click on the drop-down arrow below the Art box.

   Step 3: Select a border style.

   Step 4: Click on OK.

   d. A bullet is a small symbol used to mark each item in a list.

   e. The position of the text or the way the text appears with respect to the margins in a document is called alignment. There are four alignment options available in Word. They are: left, right, center and justify.

   f. To apply Numbering to selected text, follow the given steps:

   Step 1: Select the text. Click on Home tab.

   Step 2: Click on the drop-down arrow next to the **Numbering** option in **Paragraph** group. A numbering library will appear.

   Step 3: Select the numbering style you want to apply.

5. a. Center align

   b. Bullets

TECH ZONE

LET'S SOLVE

1. Paragraph group   2. Font group   3. Paragraph group   4. Font group

Let's Explore

Do it yourself.

Let's Get Better

Do it yourself.

6. Internet

Let's Plug-in (Page no. 70)

Do it yourself.

Let's Catch Up (Page no. 72)

1. Internet   2. Home page   3. WWW

Test Your Skills

1. a. (iii)   b. (ii)   c. (iii)   d. (i)
2. a. Internet   b. URL   c. Website
   d. World Wide Web   e. Web Browser
3. a. (F)   b. (T)   c. (F)   d. (F)
4. a. Internet is the technology by which millions of computers in the world are connected to one another to share information. Using the Internet, you can search for information on any topic and send and receive e-mail messages.
   b. It wastes our time and makes us lazy.
   c. A website is a collection of related web pages that provide information about a topic.
   d. World Wide Web (WWW) is the largest collection of information in the form of websites on the Internet.
   e. Every website on Internet has a unique address. This address of a website is called as Uniform Resource Locator or URL.
5. a. Web Browser
   b. Address Bar

Tech Zone

Let's Solve

A	U	V	J	A	G	R	J	K	P
A	D	I	N	T	E	R	N	E	T
P	O	E	D	G	E	W	W	N	O
B	R	O	W	S	E	R	Y	P	T
A	V	D	B	C	X	Z	F	P	T
W	E	B	S	I	T	E	K	Q	E
F	N	I	I	K	L	I	O	I	R
C	M	O	D	E	M	T	E	O	L
E	W	E	B	P	A	G	E	E	I
A	D	D	R	E	S	S	B	A	R

Let's Explore

Do it yourself.

Let's Get Better

Do it yourself.

Periodic Assessment–3

(Based on chapters 5 & 6)

A. 1. web browser   2. home page   3. website   4. justify

     5. Font   6. Ctrl+A   7. Formatting   8. Enter

B. 1. Mozilla Firefox — b.

     2. Microsoft Edge — c.

     3. Google Chrome — a.

C. Ramya used the Borders and Shading option and selected a flower design from the Art box to create the border.

7. Stepwise Thinking

Do it yourself.

3 Press power button on the CPU.

2 Switch on the UPS.

1 Press the main power button.

4 Switch on the monitor.

TEST YOUR SKILLS

1. a. (i)   b. (i)   c. (ii)

2. a. (F)   b. (F)   c. (T)   d. (T)

3. a. The process of completing one step and going onto the other is known as stepwise thinking.

    b. Step 1:   Make a list of family members and friends to be invited.

       Step 2:   Decide the time and place for the party.

       Step 3:   Inform family members and friends about the party place through phone calls or e-mail.

       Step 4:   Greet the guest with love and warmth.

       Step 5:   Start and enjoy the party.

    c. The act of repeating an action again and again is called looping.

    d. Problem Solving is the process of finding solutions to a difficult task.

4. a. Step 1:   Hold one lace in each hand.

       Step 2:   Cross the laces over each other to make an "X".

       Step 3:   Tuck one lace under the other and pull tight to make the first knot.

       Step 4:   Make a loop (bunny ear) with each lace.

       Step 5:   Cross the loops over each other.

       Step 6:   Tuck one loop under the other and pull both loops to tighten the bow.

    b. Do it yourself.

LET'S SOLVE
1. Yes   2. Do it yourself.

LET'S EXPLORE
Do it yourself.

LET'S GET BETTER
Do it yourself.

8. Let's Learn Scratch

LET'S PLUG-IN 〜〜🔌 (Page no. 86)

Do it yourself.

◎ **LET'S CATCH UP** (Page no. 91)

1. Go button   2. Stop button   3. Event block

TEST YOUR SKILLS

1.   a. (i)   b. (ii)   c. (ii)   d. (ii)   e. (ii)

2.   a. (T)   b. (F)   c. (F)   d. (F)   e. (T)

3.   a. ii.   b. i.   c. iv.   d. v.   e. iii.

4.   a. It is the actor who acts on the stage. Sprite is an object in Scratch that performs the function on stage area.

   b. Title Bar, Menu Bar, Stage Area

   c. The blocks that are used to control the movement of a Sprite are known as Motion blocks.

   d. To change the appearance of a sprite, follow these steps:

   Step 1:   Click on the Costumes tab. An image of the selected sprite appears in the tab. Here the selected sprite is cat.

   Step 2:   Click on the image of the sprite. Drag the selection blue border to select the cat. A border appears around it.

Step 3: Click on Fill and Outline options to change the colors of the cat and the outline.

5. a. Gunjan should use the "move __ steps" block from the Motion category.
   b. Go button

TECH ZONE

LET'S SOLVE

Do it yourself.

LET'S EXPLORE

1. Sound block   2. Block Palette   3. Costumes tab
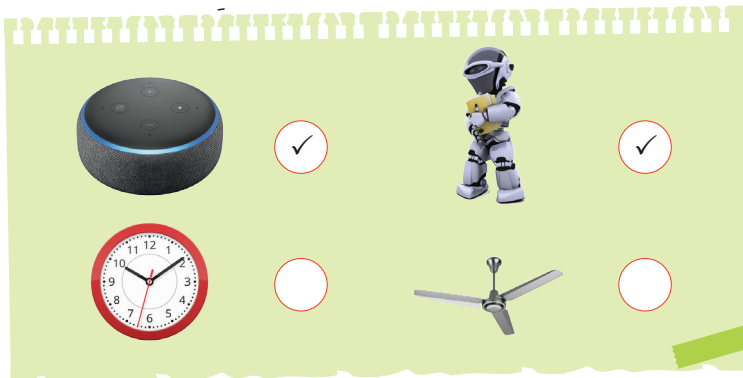
LET'S GET BETTER

Do it yourself.

9. AI-Enabled Devices

LET'S PLUG-IN (Page no. 98)

LET'S CATCH UP (Page no. 102)

1. SMART DOORBELL   2. SMART TV
3. CHATBOT   4. SMARTWATCH

Test Your Skills

1. a. (ii)   b. (i)   c. (ii)

2. a. Smart speaker   b. Driverless Car   c. Smart doorbell

3. a. T   b. F   c. F   d. T   e. F

4. a. Chatbot is an AI application used to make an online chat conversation. These are very commonly used by companies like Amazon, Flipkart, etc. for customer support.

   b. A driver-less car uses a combination of sensors, cameras, and AI to travel between destinations without human help.

   c. Smartwatches can tell you about your heart beat, count your steps, etc.

   d. Smartphones are portable devices which combine the functions of a mobile phone and computing devices.
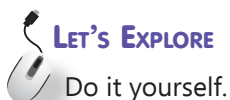
5. a. Smartwatch

   b. Smart speakers

Tech Zone

Let's Solve

1.
SMART TV

2.
SMARTWATCH

3.
DRIVERLESS CAR

4.
_____

5.
_____

6.
_____

7.
SMART SPEAKER

8.
_____

9.
_____

Periodic Assessment–4

(Based on chapters 7 to 9)

A. Yes

B. 1. b. 2. d. 3. a. 4. c.

C. 1. Chatbot 2. Smartphone 3. Smartdoor bell 4. Smart TV

Test Sheet–2

(Based on chapters 5 to 9)

Section A

A. 1. (ii) 2. (ii) 3. (iii) 4. (i)

5. (iii) 6. (ii) 7. (i) 8. (i)

B. 1. Chatbot 2. Stepwise 3. Internet 4. Stop 5. Backdrop

C. 1. (T) 2. (F) 3. (F) 4. (T) 5. (T)

D. 1. iii. 2. v. 3. iv. 4. i. 5. ii.

Section B

A. 1. Uniform Resource Locator 2. Looks

3. Ctrl + B 4. Reasoning and Problem solving(2)

B. 1. A driverless car works without human help.

2. To change the backdrop, follow the given steps:

Step 1: Click on the Choose a Backdrop tool in the Sprites Info Pane. A Choose a Backdrop window opens. It shows the thumbnails of the available backdrops.

Step 2: Click on a backdrop to add it to your project.

3. Changing the appearance and arrangement of the text is called formatting the text.

4. Problem Solving is the process of finding solutions to a difficult task.

5. To connect your computer to the Internet, you need the following things:

• A computer or a device

• A telephone or cable line

• A modem or a network card

• A company providing Internet connection

• Software (Web browser)