

## 1. Inside a Computer

### LEARNING LOGS



- A.** 1. (i)      2. (ii)      3. (ii)      4. (ii)      5. (ii)
- B.** 1. T      2. F      3. T      4. T      5. T
- C.** 1. Brain      2. Word      3. Google Maps      4. Web browsing  
5. Printer
- D.** 1. Hardware described as the physical parts of the computer. Whereas, Software refers to the programs and applications that tell the computer what to do.  
2. A plotter is used to produce large drawings and banners.  
3. Hard disk drive (HDD), CD and memory card.  
4. i. Keyboard and Mouse  
ii. Microsoft Word and PowerPoint  
5. The operating system is a system software that manages all the computer's resources and allows you to interact with it. For example, Windows and Android.

### COMPETENCY-BASED QUESTIONS

1. Manshi should use a printer.
2. Kundan should use a joystick and game controller.

### LAB LEARNING

Do it yourself.



### CODE CHECK

Do it yourself.

## 2. My Computer Screen

### LEARNING LOGS



- A.** 1. (ii)      2. (iv)      3. (ii)      4. (ii)      5. (i)
- B.** 1. T      2. F      3. T      4. T      5. F
- C.** 1. Pinned      2. Desktop      3. notification      4. Running  
5. Taskbar
- D.** 1. The notification Center displays notifications, alerts and updates from apps, system events and settings.  
2. Copilot is an Artificially Intelligent helper that can provide information and follow instructions.  
3. To shut down the computer, follow the given steps:  
Step 1: Click the Start button in the center of the taskbar.  
Step 2: Click the Power button in the Start Menu.  
Step 3: Select the Shut down option.  
4. A screen saver is a visual animation or image that appears when PC has been idle for a set amount of time.  
5. Different options available for changing the desktop background are: Picture, Solid color, Slideshow and Windows Spotlight.

### COMPETENCY-BASED QUESTIONS

1. Laxmi can use Snap Layout.
2. Tanav should use Search Box.

### LAB LEARNING

Do it yourself.



### CODE CHECK

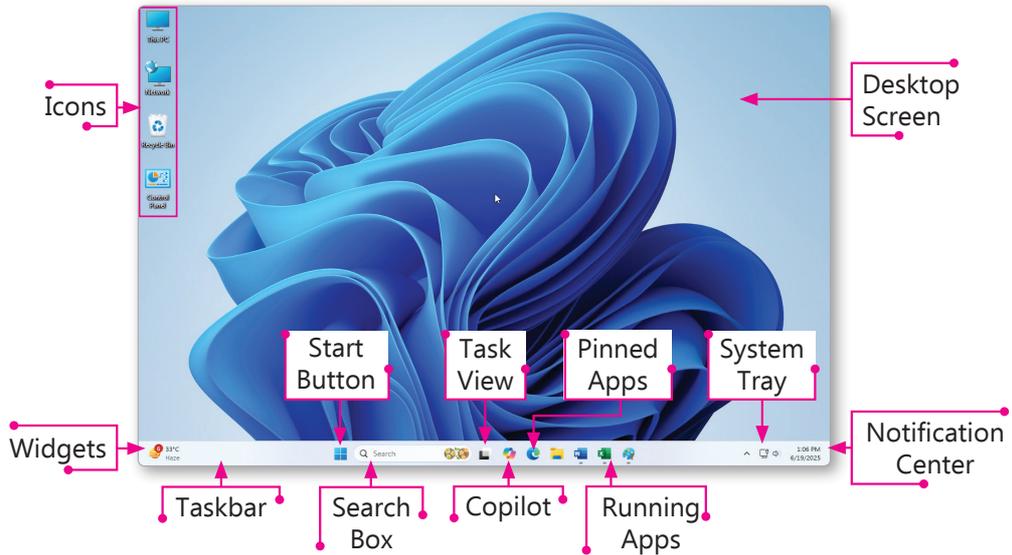
Do it yourself.



# Periodic Assessment-1

(Based on chapters 1 & 2)

A.



B. 1. Headset

2. Webcam

3. Projector

4. Scanner

C.

1

3

4

2

## 3. Digital Drawing using Sketchpad

### LEARNING LOGS



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

B. 1. F      2. F      3. T      4. F      5. T

C. 1. Drawing Area      2. Tools      3. Vertical Toolbar      4. Save  
5. Calligraphy

- D.**
1. Zoom tool is used to zoom in for viewing small details or zoom out to see the entire picture.
  2. Select tool is used to move, rotate, scale, delete and reorganise the layers of a drawing.
  3. Brushes and Pencil tool.
  4. Sketchpad is an online drawing tool that allows you to create an amazing artwork on your computer.
  5. Vector Fill lets you add background, colours, patterns or gradients to your artwork. Whereas, Pixel Fill lets you colour hand-drawn pictures made using pencil or brush tool.

### COMPETENCY-BASED QUESTIONS

1. Rohit can use Eraser tool.
2. Gunjan can use the Fill Tool.

#### LAB LEARNING

Do it yourself.



#### CODE CHECK

Do it yourself.

## 4. Styling in Word 2021

### LEARNING LOGS



- A.** 1. (i)      2. (ii)      3. (i)      4. (iii)      5. (ii)
- B.** 1. T      2. T      3. F      4. T      5. T
- C.** 1. Editing      2. Text Style / Formatting      3. Delete      4. Undo      5. Bold
- D.**
1. Styling a Word document means changing how the text looks by using fonts, colours and sizes. You can also add headings, bold or italicise words and adjust spacing.
  2. Find and Replace is a feature that allows you to search for a word or phrase in your document and replace it with a new one in the entire document.
  3. **Copy:** It lets you duplicate text to place it elsewhere in your document without removing it from the original location.  
**Cut:** It lets you remove text from one part of your document and move it somewhere else.
  4. The superscript option is used to write the date as 5<sup>th</sup> September. Superscript characters appear smaller and raised above the text.



5. Two ways to select text using a mouse are:
  - a. Double-click on the word.
  - b. Hold down the Ctrl key and click anywhere in the sentence.

### COMPETENCY-BASED QUESTIONS

1. Rehan should use Highlight feature.
2. Mitali should use Center alignment feature.

#### LAB LEARNING

Do it yourself.



#### CODE CHECK

Do it yourself.

## Periodic Assessment-2

(Based on chapters 3 & 4)

- |           |           |            |                  |           |
|-----------|-----------|------------|------------------|-----------|
| <b>A.</b> | 1. Shapes | 2. Brushes | 3. Crop & Resize | 4. Zoom   |
| <b>B.</b> | 1. d      | 2. c       | 3. a             | 4. b      |
| <b>C.</b> | 1. PASTE  | 2. CANVAS  | 3. LAYERS        | 4. SHAPES |

## Test Sheet-1

(Based on chapters 1 to 4)

- |           |          |            |         |                 |
|-----------|----------|------------|---------|-----------------|
| <b>A.</b> | 1. (i)   | 2. (ii)    | 3. (ii) | 4. (iii)        |
|           | 5. (i)   | 6. (ii)    | 7. (ii) | 8. (iv)         |
| <b>B.</b> | 1. T     | 2. F       | 3. T    | 4. F            |
|           | 5. F     | 6. F       | 7. T    | 8. F            |
| <b>C.</b> | 1. Brain | 2. Printer | 3. Word | 4. Notification |
|           | 5. Tools | 6. Undo    | 7. Save | 8. Running      |
- D.**
1. Hardware described as the physical parts of the computer. Whereas, Software refers to the programs and applications that tell the computer what to do.
  2. A plotter is used to produce large drawings and banners.
  3. Copilot is an Artificially Intelligent helper that can provide information and follow instructions.
  4. Vector Fill lets you add background, colours, patterns or gradients to your artwork. Whereas, Pixel Fill lets you colour hand-drawn pictures made using pencil or brush tool.

5. **Copy:** It lets you duplicate text to place it elsewhere in your document without removing it from the original location.  
**Cut:** It lets you remove text from one part of your document and move it somewhere else.
6. Brushes and Pencil tool.
7. To shut down the computer, follow the given steps:  
Step 1: Click the Start button in the center of the taskbar.  
Step 2: Click the Power button in the Start Menu.  
Step 3: Select the Shut down option.
8. Hard disk drive (HDD), CD and memory card.

## 5. Internet Basics

### LEARNING LOGS



- A.** 1. (iii)      2. (ii)      3. (ii)      4. (iii)      5. (ii)
- B.** 1. T      2. F      3. F      4. T      5. F
- C.** 1. Network    2. Upload    3. Web browser      4. Modem      5. Video calls
- D.** 1. World Wide Web (WWW) is a system of interlinked webpages that you can access through the Internet using a web browser.  
2. Zoom, Google Meet and Microsoft Teams.  
3. **Download:** When you take something from the Internet, like a picture, song or app and save it on your device, it is called download.  
**Upload:** When you send something from your device to the Internet, like sharing a photo or video on a website, you upload the file.  
4. Three things you can do on the Internet are Learning, Communication and Virtual Meetings.  
5. Two ways to stay safe on the Internet are Don't share personal information and Use Secure Websites.

### COMPETENCY-BASED QUESTIONS

1. Neha needs to use a computer, an ISP, a modem and an ethernet cable.
2. Rahul can use an email.

### LAB LEARNING

Do it yourself.





Do it yourself.

## 6. Be Smart Online

### LEARNING LOGS



- A.** 1. (ii)      2. (iii)      3. (iii)      4. (ii)
- B.** 1. F      2. T      3. T      4. T
- C.** 1. Internet      2. Download      3. Websites      4. Credit
- D.** 1. Ethics are rules that help you decide what is right and wrong.  
2. Computer ethics is about the responsible use of computers, digital systems and information technology, ensuring that they benefit society without causing harm.  
3. Two tips to take care of your computer are:  
    a. Avoid eating or drinking near the computer to prevent crumbs or spills.  
    b. Always close the laptop lid gently and carry it properly to protect the screen and hinges.  
4. **Right:** Be kind and polite to others while chatting or playing games.  
    **Wrong:** Copying someone else's homework or artwork and saying it is yours is wrong.

### COMPETENCY-BASED QUESTIONS

1. Rani should check if the picture is free to use or if she needs permission from the owner.
2. Priya should not share any personal details with the stranger.

### LAB LEARNING

Do it yourself.



Do it yourself.

# Periodic Assessment-3

(Based on chapters 5 & 6)

- A.** 1. d                      2. c                      3. e                      4. a                      5. b
- B.** 1. Uniform Resource Locator  
2. World Wide Web  
3. Internet Service Provider
- C.** 1. Ethics are rules that help you decide what is right and wrong. Ethics teach you to treat others kindly, share what you have, be honest and act fairly.  
2. Website is a group of many webpages linked together, just like a book has many pages.  
3. Respecting Privacy is always keeping your personal information safe and not sharing others' private details without their permission.  
4. When you take something from the Internet, like a picture song, or app and save it on your device, it is called downloading.  
5. Responsible Use is always using the computer for good purposes like learning, creating and having fun in safe ways.

## 7. Solve It Stepwise

### LEARNING LOGS



- A.** 1. (ii)                      2. (ii)                      3. (ii)                      4. (ii)
- B.** 1. T                      2. F                      3. F                      4. T
- C.** 1. Relevant                      2. Arrows, Boxes                      3. SMART                      4. Instruction
- D.** 1. Step SMART means breaking a task into small, clear steps and doing them in the right order.  
2. Decomposition (dividing) means breaking a big problem into smaller and simpler tasks. This helps us solve problem one step at a time.  
3. Steps to clean a room are:  
Step 1: Pick up toys.  
Step 2: Put away clothes.  
Step 3: Make the bed and vacuum the floor.  
4. Three mistakes that an instruction can have are missing steps, wrong order or confusing actions.



## COMPETENCY-BASED QUESTIONS

- Place the flower plant in the hole
  - Dig a small hole in the soil
  - Cover the plant with soil
  - Water the plant
- Next three numbers are 20, 24, 28. This is an arithmetic sequence where each number increases by 4.

### LAB LEARNING

Do it yourself.



### CODE CHECK

Do it yourself.

## 8. Say Hello to Scratch 3

### LEARNING LOGS



- A.** 1. (ii)      2. (iii)      3. (ii)      4. (iv)      5. (ii)
- B.** 1. c      2. d      3. e      4. b      5. a
- C.** 1. Blocks      2. Code      3. Saving      4. Choose a Sprite      5. Sounds
- D.** 1. Three advantages of Scratch are:
- Commands are block-based, so there is nothing to remember.
  - Blocks can be dragged and snapped to build programs.
  - Each block has its own colour and group for easy finding.
2. Two components of the Scratch window are:
- Block Palette:** It is the area where all coding blocks are found.
  - Block Categories:** It contains the groups of blocks sorted by their function.
3. Adding a sprite means placing a character, object or element into the project.
4. Events blocks run the script on the stage and control the start of scripts. Without an Events block, no program will run.
5. Blocks in Scratch are like jigsaw puzzle pieces. They connect vertically to create code. Each block has a unique shape and slot.

## COMPETENCY-BASED QUESTIONS

1. The sequence would be:  
When green flag clicked  
Motion Block: move 50 steps  
Looks Block: say "Hello!" for 2 seconds
2. Here are the steps for Rohit to add a backdrop in Scratch:
  - a. Go to the Backdrops section in the Stage area.
  - b. Click on the Choose a Backdrop button.
  - c. Select the desired backdrop from the library.The backdrop will automatically appear on the stage.

### LAB LEARNING

Do it yourself.



### CODE CHECK

Do it yourself.

## 9. Robot Wonders

### LEARNING LOGS



- A.** 1. (ii)      2. (ii)      3. (i)      4. (iii)      5. (iii)
- B.** 1. T      2. F      3. T      4. F      5. T
- C.** 1. Roomba    2. Astro    3. Robots    4. Controller    5. Aibo
- D.** 1. A robot is a machine that can be programmed to do tasks on its own.  
2. Two advantages of robots are Reduced Labour Costs and Safety.  
3. Two famous robots are:
  - a. **AIBO:** Aibo is a robotic dog made by Sony. It can learn new things, listen to commands and even recognise people's faces.
  - b. **SOPHIA:** Sophia is a robot that looks like a human. She can talk, smile and learn new things.
4. Sensors are used to detect inputs like light, sound, touch and distance and then send that data to the controller.



5. Five main components of a Robot are:

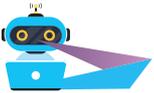
- a. Sensors
- b. Controller
- c. Power Supply
- d. End Effector
- e. Actuators

## COMPETENCY-BASED QUESTIONS

- 1. Aarav's robot will use its actuators to move the box.
- 2. The robot that moves around the house and cleans the floors automatically is Roomba.

### LAB LEARNING

Do it yourself.



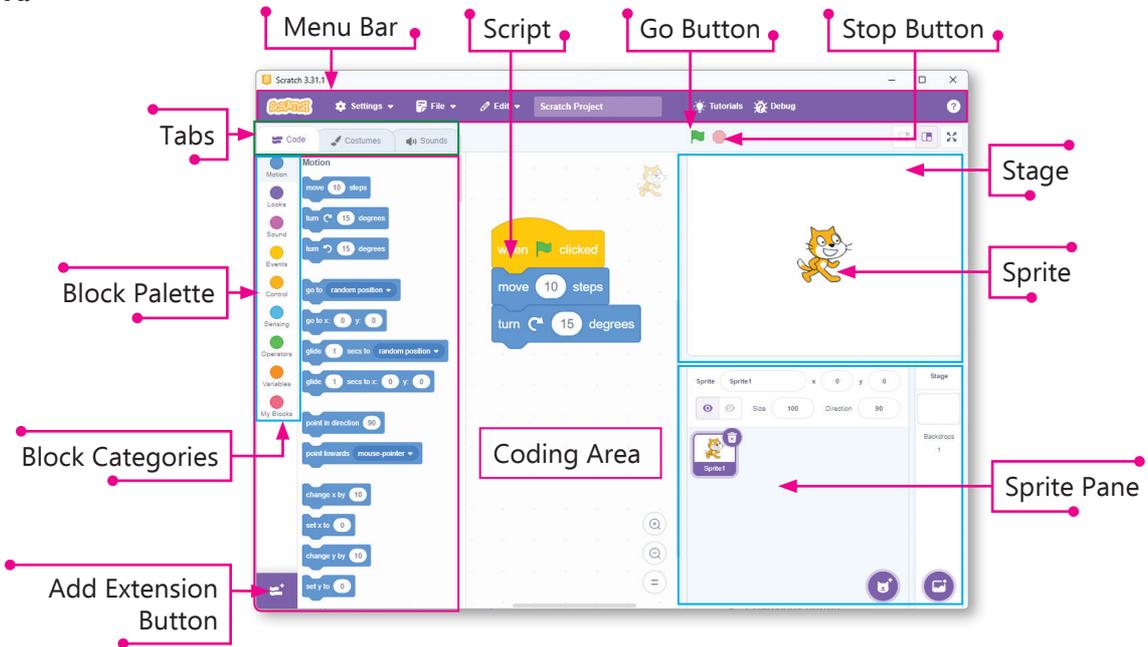
### CODE CHECK

Do it yourself.

## Periodic Assessment-4

(Based on chapters 7 to 9)

A.



- B.** 1. **Astro:** a robot made by Amazon that helps around the house.  
 2. **Sophia:** a robot that looks like a human. She can talk, smile and learn new things.

**C.**



## Test Sheet-2

(Based on chapters 5 to 9)

- A.** 1. (ii)      2. (ii)      3. (ii)      4. (iii)      5. (ii)  
 6. (ii)      7. (ii)      8. (ii)
- B.** 1. T      2. F      3. T      4. T      5. T  
 6. F      7. F      8. T
- C.** 1. Network      2. Download      3. Video calls      4. Credit  
 5. Relevant      6. Arrows, Boxes      7. Choose a Sprite      8. Controller
- D.** 1. Zoom, Google Meet and Microsoft Teams.  
 2. **Download:** When you take something from the Internet, like a picture, song or app and save it on your device, it is called download.  
**Upload:** When you send something from your device to the Internet, like sharing a photo or video on a website, you upload the file.  
 3. Two tips to take care of your computer are:  
 a. Avoid eating or drinking near the computer to prevent crumbs or spills.  
 b. Always close the laptop lid gently and carry it properly to protect the screen and hinges.  
 4. **Right:** Be kind and polite to others while chatting or playing games.  
**Wrong:** Copying someone else's homework or artwork and saying it is yours is wrong.  
 5. Steps to clean a room are:  
 Step 1: Pick up toys.  
 Step 2: Put away clothes.  
 Step 3: Make the bed and vacuum the floor.  
 6. Three mistakes that an instruction can have are missing steps, wrong order or confusing actions.



7. Events blocks run the script on the stage and control the start of scripts. Without an Events block, no program will run.
8. Five main components of a Robot are:
  - a. Sensors
  - b. Controller
  - c. Power Supply
  - d. End Effector
  - e. Actuators

