Class 4

Answer Key

DigiCode AI (Ver. 2.1)

1. More on Windows 10

TECH SET GO (Page no. 7)


This PC


Folder


Start Button


Recycle Bin

BYTE QUEST (Page no. 11)

1. (c) 2. (d) 3. (a) 4. (b)

TECH READY

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

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

C. 1. (b) 2. (c) 3. (d) 4. (a)

D.

1. The two components of Windows 10 Desktop are: Icons and Desktop Background.
2. This PC icon is useful for finding, organising and storing files in the computer.
3. The Start menu is divided into two panes—the left pane and the right pane.
4. To change the position of the taskbar, follow the given steps:
   Step 1 Right-click on the taskbar and select the Lock the taskbar option.
   Step 2 Now, drag the taskbar to any side of the screen.
5. The clock is located on the right side of the taskbar.

IMPRINT 1

6. To change desktop background, follow the given steps:

Step 1 Right-click on the desktop and choose Personalize option.

Step 2 Click on Background.

Step 3 Select Picture option.

Step 4 Either select an available picture from Choose your picture options or click on the Browse option.

Step 5 Click on the image you want to use.

Step 6 Click on Choose picture button.

After choosing a picture, the Background will change automatically.

TECH TWISTER

1. Windows Color 2. Wallpaper 3. Taskbar 4. Start Button

Competency-based/Application-based questions

1. (i) Personalize
2. Yes Raju can update his system's time.

To Update Date and Time, follow the given steps:

Step 1 Right-click on Clock.

Step 2 Click on Adjust date/ time option.

Step 3 Toggle Set time automatically button off and click on the Change button.

Step 4 Click on the down arrow to select the month, date and year as needed to select the correct date.

Step 5 Click on down arrow button to select time as needed to select the correct time.

Step 6 Click on the Change button.

2. Graphics in Word

TECH SET GO (Page no. 19)

Do it yourself.

BYTE QUEST (Page no. 26)

1. Shadow 2. Reflection 3. Glow 4. Bevel 5. 3-D rotation 6. Transform

TECH READY

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

B. 1. Shapes 2. Insert 3. Pictures 4. 3-D Rotation

C. 1. Shapes 2. WordArt 3. Pictures 4. Symbol

D.

1. There are three basic types of graphics—Shapes, WordArt and Pictures.
2. Lines and Basic Shapes
3. Symbols are punctuations or special characters generally not found on the keyboard.
4. To change the outline colour of the shape, follow the given steps:
   Step 1 Click on the shape to select it.
   Step 2 Click on the Format tab
   Step 3 Click on the Shape Outline command.
   Step 4 Choose the outline colour and thickness.
5. To apply WordArt effect to text, follow the given steps:
   Step 1 Click on Insert tab.
   Step 2 Click on WordArt option.
   Step 3 Choose the desired style.
   Step 4 Type text in the textbox and click outside the textbox.
6. To insert a scanned picture into a document from the computer, follow the given steps:
   Step 1 Click on Insert tab.
   Step 2 Click on the Pictures command.
   Step 3 Browse to the location of the picture you wish to insert and select the desired image.
   Step 4 Click on the Insert button.

TECH TWISTER

A.

B.

[2] Click on the Format tab.
[1] Select the shape.
[4] Hover the mouse over the 3-D Rotation option from the drop-down menu.
[5] Select the desired rotation effect from the submenu.
[3] Click on the Shape Effects from the Shape Styles group.

Competency-based/Application-based questions

1. To insert an online image, follow the given steps:
   Step 1: Click on the Insert tab.
   Step 2: Click on the Online Pictures option.
   Step 3: Type a word in Bing Image Search box.
   Step 4: Select the picture, you want to insert.
   Step 5: Click on Insert (1) button
2. Shagun can use WordArt to apply a text effect to the title.

IMPRINT 1

3. Tables in Word

TECH SET GO (Page no. 31)

Do it yourself.

BYTE QUEST (Page no. 35)

1. (b) 2. (c) 3. (d) 4. (a)

BYTE QUEST (Page no. 38)

1. two or more
2. one cell into two or more cells
3. row height in a table

TECH READY

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

B. 1 Resizing 2. Merging 3. Layout 4. Design 5. Delete Rows

C. 1. F 2. T 3. T 4. F

D. 1. The use of the Table Styles feature is to format the entire table quickly.

2. Shading styles allow you to enhance the look of the table.

3. To add a row in a table, follow the given steps:
   Step 1 Select the row where you want to add an additional row.
   Step 2 Click on the Layout tab from the Table Tools.
   Step 3 Click on the desired option from the Rows & Columns group.

4. To insert a table, follow the given steps:
   Step 1 Click on the Insert tab.
   Step 2 Click on the Table drop-down arrow.
   Step 3 Click on the top left corner of the grid and drag the mouse to highlight the number of columns and rows you want in the table.
   The table will be inserted into the document.

5. To merge two cells, follow the given steps:
   Step 1 Select the cells that you want to merge.
   Step 2 Click on the Layout tab from the Table Tools.
   Step 3 Click on the Merge Cells command.
   The selected cells are merged as one cell.

IMPRINT 1

1. Align Top Left 2. Align Top Center 3. Align Top Right

Competency-based/Application-based questions

1. Insert tab
2. To move a table, follow the given steps:

   Step 1: Move the mouse pointer over the table. The Move Table Handle will appear on the top left corner of the table.

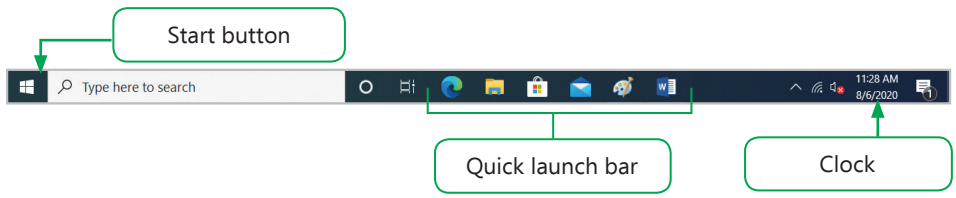
   Step 2: Move the mouse pointer over the Move Table Handle. The mouse pointer converts to a plus sign.

   Step 3: Click and drag the table to the desired position and release the mouse button.

Periodic Assessment 1

(Based on chapters 1 to 3)

A.



B.

7 Click on the Close button to exit.

1 Click on the Insert tab.

3 Click on any symbol you want to insert.

5 Select the symbol or character you want to insert.

4 To view more symbols, click on More Symbols option.

2 Click on the Symbol command.

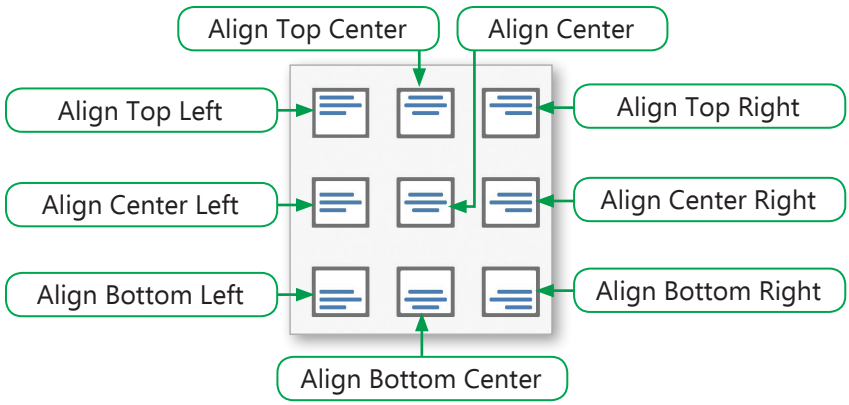
6 Click on the Insert button to insert the symbol into the document.

C.

1. Insert Tab
2. Table Layout Tab
3. Layout Tab
4. Table Design Tab

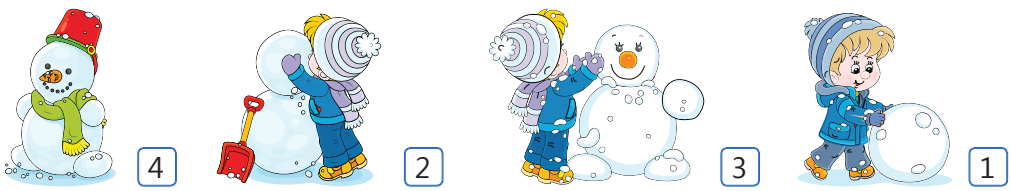
IMPRINT 1

D.



4. Introduction to PowerPoint 2016

TECH SET GO (Page no. 45)



BYTE QUEST (Page no. 51)

1. Normal View 2. Outline View 3. Slide Sorter View

TECH READY

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

B. 1. Microsoft Office 2. Title bar 3. Slide 4. Presentation
5. Status bar

C. 1. (d) 2. (c) 3. (a) 4. (e) 5. (b)

D. 1. a. Title and Content
b. Two Content
c. Comparison
d. Content with Caption

2. Title bar, Placeholder and ribbon are the three components of PowerPoint screen.

3. To start PowerPoint, follow the given steps:

Step 1 Click on Start button.

Step 2 Scroll down to 'P' and click on PowerPoint.

PowerPoint main screen will appear.

4. To insert a new slide, follow the given steps:

Step 1 Click on the Home tab.

Step 2 Click on the New Slide down arrow.

Step 3 Select the type of slide you want.

A new slide will be inserted. You can also insert a new slide by right clicking in the Slides Pane.

5. To open a saved presentation, follow the given steps:

Step 1: Click on File tab.

Step 2: Click on Open button.

Step 3: Locate and select your presentation.

Step 4: Click on the Open button.

TECH TWISTER

1. Normal View
2. Outline View
3. Slide Sorter View
4. Reading View

Competency-based/Application-based questions

1. Delete Slide option.
2. Slide Sorter View

5. More on Internet

TECH SET GO (Page no. 58)

1. Search information	✓	2. Chat online	✓
3. Sleep		4. Buy a mobile phone	✓
5. Send and receive e-mail	✓	6. Take a bath	
7. Watch a cartoon movie	✓	8. Pack your bag	
9. Exercise and yoga		10. Play online games	✓

IMPRINT 1

BYTE QUEST (Page no. 62)

1. FACEBOOK 2. WHATSAPP 3. INSTAGRAM 4. MODEM

TECH READY

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

B. 1. Durfing 2. Search engines
3. Downloading 4. Uploading

C. 1. Internet is a global network of millions of computers and computer networks all over the world.
2. Instagram, Facebook and X (formerly known as Twitter)
3. It is a link on a text or on an image, which on clicking takes the user to the another location.
4. Uses of Internet are:
   (i) Internet is used to search information on any topic.
   (ii) Internet is used to buy and sell products all over the world.
5. The things required for having an Internet connection are computer system, telephone and cable lines, modem, web browser and ISP.

TECH TWISTER

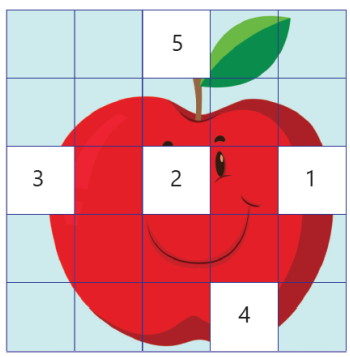
Do it yourself.

Competency-based/Application-based questions

1. (i) Amazon 2. (iii) Mozilla Firefox

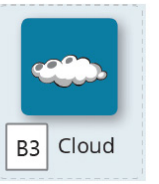
6. Visual Processing

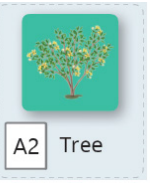
TECH SET GO (Page no. 65)



IMPRINT 1

CODE QUEST (Page no. 68)





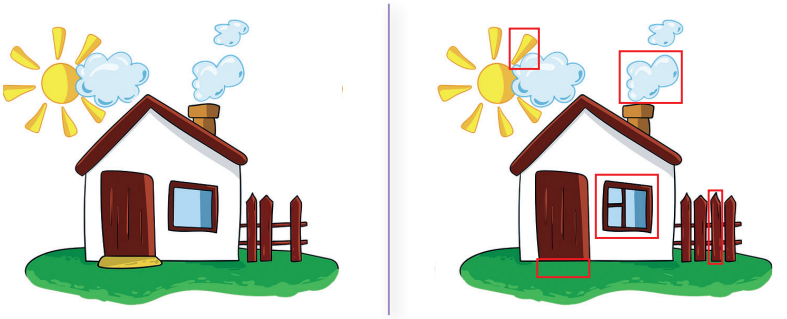
TECH READY

A. 1. (iv) 2. (i) 3. (i)

B. 1. F 2. T 3. F

C. 1. The ability of the brain to use and understand visual information from the environment is referred to as visual processing.
2. When a shape looks exactly the same to its original shape after being flipped or turned, it is called a mirror image.
3. Directions and Maps help us in pointing the location of a particular area or an object.

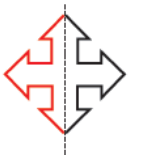
TECH TWISTER



Competency-based/Application-based questions

1. 

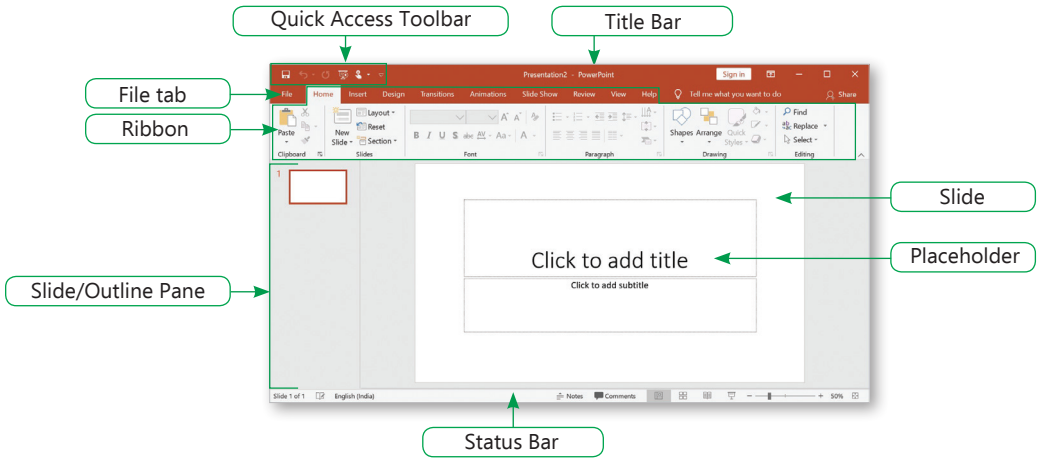
2. 

3. 

Periodic Assessment 2

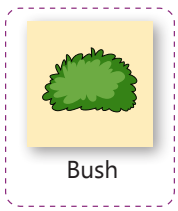
(Based on chapters 4 to 6)

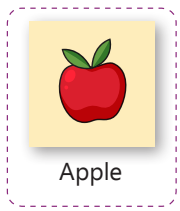
A.



B. 1. Facebook 2. Instagram 3. X 4. YouTube 5. WhatsApp

C.


Bush B2


Apple B3


Dustbin A2

Test Sheet 1

(Based on chapters 1 to 6)

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

B. 1. Pictures 2. Merging 3. Search engines 4. Downloading 5. Slide

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

D. 1. (d) 2. (c) 3. (a) 4. (e) 5. (b)

E. 1. To change the position of the taskbar, follow the given steps:
Step 1 Right-click on the taskbar and select the Lock the taskbar option.
Step 2 Now, drag the taskbar to any side of the screen.

IMPRINT 1

2. To insert a scanned picture into a document from the computer, follow the given steps:
   Step 1 Click on Insert tab.
   Step 2 Click on the Pictures command.
   Step 3 Browse to the location of the picture you wish to insert and select the desired image.
   Step 4 Click on the Insert button.

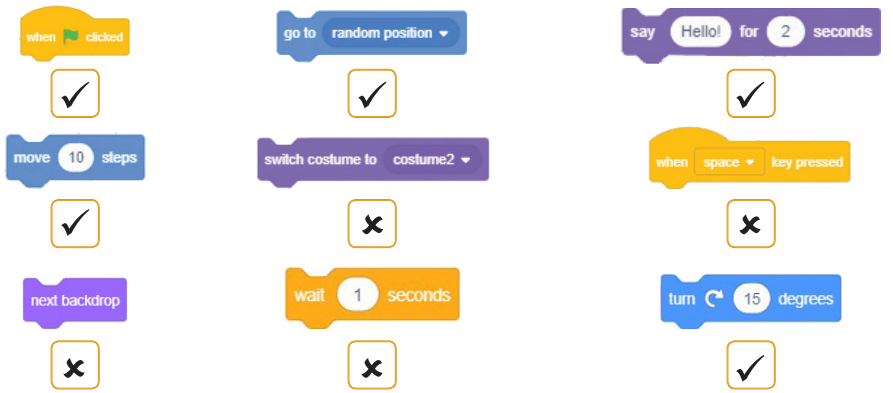
3. To insert a new slide, follow the given steps:
   Step 1 Click on the Home tab.
   Step 2 Click on the New Slide down arrow.
   Step 3 Select the type of slide you want.
   A new slide will be inserted. You can also insert a new slide by right clicking in the Slides Pane.

4. Instagram, Facebook and X (formerly known as Twitter)

5. When a shape looks exactly the same to its original shape after being flipped or turned, it is called a mirror image.

7. Blocks in Scratch

TECH SET GO (Page no. 74)



CODE QUEST (Page no. 77)

1. C-Block 2. Cap Block

TECH READY

A. 1. (ii) 2. (ii) 3. (iv) 4. (i) 5. (iv) 6. (ii)

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

IMPRINT 1

C.

1. This block helps to begin a script. It is shaped in such a way that we can place blocks below it.
2. This block changes the costume of the sprite to the next costume in the costume list.
3. The X-coordinate always comes first, and the coordinates are separated by a comma. For example, an X- coordinate of 2 and a Y-coordinate of 2 would look like this: (2, 2).
4. Control blocks have looping blocks which are used when the same blocks have to be repeated a number of times.
   a. forever block keeps on repeating a set of blocks until the stop button is clicked. It is similar to a repeat block and expands automatically to accommodate the blocks you snap inside it.
   b. repeat block repeats a set of blocks a given number of times.
5. a. play sound Meow until done block plays a sound until the complete sound has been played.
   b. start sound Meow block starts playing a sound.
   c. stop all sounds block stops all the sound.

TECH TWISTER

A.

1. This block starts playing a sound.
2. This block moves the Sprite to a specified XY position.
3. This block sets the size of the sprite to a specified percentage of the original size.

B.

1. say block
2. when this sprite clicked block
3. repeat block
4. Motion blocks

Competency-based/Application-based questions

1. move steps block and turn clockwise degrees block
2. He should remove when clicked block and add when space key pressed block.

8. Introduction to Kodu Game Lab

TECH SET GO (Page no. 83)

1. Subway Surfers
2. Candy Crush Saga
3. My Talking Tom

CODE QUEST (Page no. 88)

1. (b) 2. (d) 3. (a) 4. (c)

CODE QUEST (Page no. 93)

1. Plus sign 2. Save my world option is used to save the game.

TECH READY

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

B. 1. New World 2. Creativity 3. Move backward 4. Plus

C. 1. An object in the Kodu game lab can be a character or item like an apple, tree, bot, or kodu that you can program.

2. Click on the Home button and then click on Save My World to save a project.

3. a. Move Forward -W

   b. Turn Left - A

4. To start with the first tutorial on Kodu, follow the given steps:

   Step 1 Enter your name and pin.

   Step 2 Click on OK button.

   Step 3 Click on Community.

   Step 4 Type tutorial in the search box.

   Step 5 Click on First Tutorial.

TECH TWISTER

Do it yourself.

Competency-based/Application-based questions

Kodu Game Lab

Periodic Assessment 3

(Based on chapters 7 & 8)

A. 1. This block helps to begin a script. It is shaped in such a way that we can place blocks below it.

2. This block helps to place the other blocks above and below it.

IMPRINT 1

3. This block is the condition block which has either of the two values, "True" or "False", so it helps to take a decision.
4. This block is the value block that can hold numbers and strings.
5. This block loops the other blocks within it. It is also called a wrap block. This block is also used to repeat an action.
6. This block stops the script from functioning. It is shaped in such a way that no other block can be placed below it.

B.

1. Motion blocks	2. Looks blocks	3. Looks blocks
4. Sound blocks	5. Control blocks	6. Motion blocks

C.

1. To add Object	2. To play the game	3. To move Forward
4. To return to the main menu	5. To turn Left	6. To turn Right

9. AI Timeline

TECH SET GO (Page no. 97)

Do it yourself.

AI QUEST (Page no. 102)

Siri and Cortana

AI QUEST (Page no. 104)

1. IBM 2. Edward Feigenbaum

TECH READY

A.

1. (i)	2. (iii)	3. (ii)	4. (i)	5. (iii)	6. (ii)

B.

1. John McCarthy	2. WABOT-2	3. ELIZA	4. Sophia

C.

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

D.
1. Google Home uses AI to act as a personal assistant helping the user remember tasks, create appointments, and search information by voice.
2. John McCarthy developed the LISP programming language.
3. Marvin Minsky was an American Cognitive and Computer Scientist. He wrote the book 'Perceptrons' as his ground breaking work on Artificial Neural Networks.

4. Kismet, ASIMO, Roomba, Spirit and Opportunity, driverless car.

TECH TWISTER

1. Alan Turing 2. Xbox 360 3. ASIMO 4. Marvin Minsky

Competency-based/Application-based questions

1. WABOT-2
2. Spirit and Opportunity

10. AI & Non-AI Robots

TECH SET GO (Page no. 108)

Do it yourself.

AI QUEST (Page no. 111)

1. Aibo 2. Sophia 3. E2-DR 4. Puffer 5. Shalu

AI QUEST (Page no. 114)

A. 1. Cobots are used by manufacturers of lighting, mobile phones.

2. Industrial Robots can assist in material handling.

3. Agriculture Robots are used to strip away weeds.

B. (i) AI robots are equipped with artificial intelligence, while non-AI robots operate on pre-programmed instructions.

(ii) AI robots can handle complex tasks, while non-AI robots are best suited for repetitive tasks.

TECH READY

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

B. 1. Intelligent 2. Collaborative 3. Manav 4. Snake

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

D. 1. Kuri, Sophia and Rashmi

2. Cobots are also called collaborative robots. Cobots work alongside human beings. Cobots are used by manufacturers of lighting, mobile phones, speakers, computers, and more.

3. **Industrial Robots**

(i) Typical applications of these types of robots includes welding, painting, assembly, palletising, product inspection, and testing.

(ii) They can assist in material handling.

Agriculture Robots

(i) Emerging applications of robots or drones in agriculture include weed control, cloud seeding, planting seeds, and soil analysis.

(ii) Robots are used to pick apples, gather strawberries, harvest lettuce and strip away weeds.

TECH TWISTER

1. Shalu 2. Sophia 3. Kuri 4. Aibo

Competency-based/Application-based questions

1. Agriculture Robots 2. Snake Robot

Periodic Assessment 4

(Based on chapters 9 & 10)

A. 1. Alan Turing 2. John McCarthy 3. Ross Quillian
4. Edward Feigenbaum 5. Marvin Minsky

B. 1. The Bombe 2. ELIZA 3. WABOT 4. Kinect

C. 1 Sophia 2. Manav 3. Rashmi 4. Cobots 5. Puffer

Test Sheet 2

(Based on chapters 7 to 10)

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

B. 1. New World 2. Plus 3. Edward Feigenbaum 4. Sophia
5. Intelligent

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

D. 1 This block turns Sprite in clockwise direction.
2. This block stops all the sound.
3. This block displays a speech bubble of the sprite for a specified amount of time.
4. This block repeats a set of blocks a given number of times.

E. 1. Control blocks have looping blocks which are used when the same blocks have to be repeated a number of times.

IMPRINT 1

a. forever block keeps on repeating a set of blocks until the stop button is clicked. It is similar to a repeat block and expands automatically to accommodate the blocks you snap inside it.

b. repeat block repeats a set of blocks a given number of times.

2. Click on the Home button and then click on Save My World to save the project.
3. An object in the Kodu game lab can be a character or item like an apple, tree, bot, or kodu that you can program.
4. Kismet, ASIMO, Roomba, Spirit and Opportunity, driverless car.
5. Industrial Robots

   (i) Typical applications of these types of robots includes welding, painting, assembly, palletising, product inspection, and testing.

   (ii) They can assist in material handling.

   Agriculture Robots

   (i) Emerging applications of robots or drones in agriculture include weed control, cloud seeding, planting seeds, and soil analysis.

   (ii) Robots are used to pick apples, gather strawberries, harvest lettuce and strip away weeds.

IMPRINT 1