

Delhi Public School, Gandhinagar

Class- IV

Computer Sample Notebook

L.8INTRODUCTION TO SCRATCH

TEXTBOOK PAGE NO.-77

Let us Enter

- Name a few items which you can make from waste material.

Ans: Paper Flower, paper cup baby, stuff toys and foil paper craft etc.

TEXTBOOK PAGE NO.-85

Activity Land (To be done practically)

Exercises

Page No. 93

A. Put a tick (✓) on the correct option.

1. What are the ten color coded blocks:
 - a. Block Drawers
 - b. Stage
 - c. Block Palettes
 - d. None of these
2. In Scratch different types of projects can be created like:
 - a. Interactive stories
 - b. Animation
 - c. Games
 - d. All of these
3. Scratch window has:
 - a. Menu bar
 - b. Stage
 - c. Sound bar
 - d. All of these
4. Adding the blocks from the script area in the area of scratch is done through____
 - a. Block Palette
 - b. Block Drawer
 - c. Stage
 - d. Scratch

5. The option to adjust the stage size or access the Undo option is with the____
- Menu Bar
 - Shrink button
 - Grow Sprite
 - Edit Menu**

B. Fill in the blanks.

- SCRATCH** is a programming language developed in the year 2007
- GREEN FLAG** is used for starting the execution of a Scratch project.
- DRAGGING THE BLOCKS** are used to create programs in Scratch.
- The option to adjust the Stage size or access the Undo option is with the **EDIT MENU**.
- For changing the interface language **GLOBE** button is used.

C. Write T for true and F for False statements.

- Sprites are the objects which help in the making of a project. **TRUE**
- Shrink Sprite button does not help in the decrement of a pre-defined sprite. **FALSE**
- We cannot add a costume from a library. **FALSE**
- For opening a paint editor in Scratch where new backdrop can be drawn select paint new backdrop option. **TRUE**
- The name of the sprite appears in the top text box. By typing a new name the sprite can be renamed. **TRUE**

E. Answer the following questions.

1. **How do we add in Sprite?**

Ans: **Cancelled**

2. **What is stage used for?**

Ans: Stage is used for creating a program. On starting Scratch, an orange cat appears in the middle / center of the stage. This is the sprite which interacts and moves with other sprites in the stage.

3. What are the main parts of a Scratch window?

Ans: Following are the parts of scratch window:

MENU BAR, STAGE, SPRITE LIST, SCRIPTS TAB,
SOUND TAB, COSTUMES TAB

4. Write the steps for starting a Scratch window.

Ans: Step 1: Click on the search bar.

Step 2: Type Scratch

Step 3: Click on the Scratch button from the Search List.

Step 4: The Scratch window will open.

5. What are the several ways through which we can modify and insert Sprites in Scratch?

Ans: Adding a Sprite, Paint New Sprites, Adding A Backdrop,
Costume Tab.

Extra Questions

6. Write a Note on Scratch Programming.

Ans: Scratch is a programming language developed in the year 2007. In Scratch we can create a program just by dragging the blocks in the script area. We can create different types of projects like interactive stories, animations and games.

7. What is sprite in Scratch Program?

Ans: A sprite is referred to as a graphical element which can be turned, moved, shrunk and grown, etc, A sprite can be an animal, butterfly, or a ball.

8. Discuss various parts of Stage in Scratch.

Ans: Stage Button : This button takes to toggles between the default stage size of 480 pixels wide by 360 pixels tall and full screen mode.

Green Flag :It is used to execute a Scratch Project.

Stop Button :It is used for ending the execution of a Scratch Project.

F. Application based question.

1. Write the names of any five SPRITE belonging to five different groups in the SPRITE library.

Ans: Animals- Bat1, Bat2, Butterfly1, Butterfly2, Beetle etc.

People – Amon, Anna, Ballerina, Boy1 and Cassy etc.

Transportation –Airplane, Bus, Car-bug, Sailboat and Horse1etc.

Sports- Ball, Baseball, Basketball, Football and Jodi etc.

Holiday- Balloon1, Bear1, Bear2, Gift and Bells etc.

Page No. 94**ON THE MAGIC MACHINE[to be done practically]**

Create a scratch project on scratch software and show it to your teacher.

Page No. 95**FUN IN FAIRYLAND**

Names of scratch window parts are hidden in the word grid. Find and circle them. **[to be done in class.]**

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

WISE OWL'S CHALLENGE (Practical)

Create an interactive story on the scratch software and share it with your friends. Make it as interesting as you can. **[to be done practically.]**

CBE QUESTIONS[to be discuss in class orally]

- Seema wants to increase a size of sprite in scratch, which tool is used to increase size of sprite?
 - Grow
 - Shrink
 - Duplicate
- After writing a program in scratch , Rahul wants to run a scratch program By clicking on which button_____ he can execute a program.
 - Red Button
 - GreenFlag
 - Stamp

3. _____ is a small character that performs actions on the stage.
- A) Stage
 - B) **Sprite**
 - C) Code block
4. A costume is a _____
- A) A code block
 - B) **A different way a sprite looks**
 - C) A motion
5. In Scratch, Project are saved with the file _____ extension .
- A) **.sb2**
 - B) .ss2
 - C) .sc2

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L.7 INTERNET

TEXTBOOK PAGE NO. 70

LET US ENTER TO BE DONE IN NOTEBOOK.

- Write the various places where computers are used in your notebook.

Ans: Banks :- For maintaining the record of a bank account.

Schools :- For learning.

Hospitals :- For maintaining the reports of the patients

Airport :- For booking tickets.

Office :- For various office work.

- Write some of the uses of internet.

Ans: Sending Mail

Searching Information

Downloading files

Shopping

Booking Tickets

Exercises

TEXTBOOK PAGE NO. 75

A. Put a tick (✓) on the correct option. (to be done in TEXTBOOK)

1. Which of the following is a special program to access information?

- Website
- Web page
- Web browser
- URL

2. _____ is not a part of the internet.

- Website
- World Wide Web
- Telephone line
- Address bar

3. _____ is not a web browser.
- Chrome
 - Firefox
 - Internet Explorer
 - MS PowerPoint
4. _____ refers to the collection of information on the internet.
- WWW
 - Web Page
 - ISP
 - URL
5. _____ button is used to revisit a web page visited recently.
- Refresh
 - Bookmark
 - Forward
 - Backward

B. Fill in the blanks.(to be done in TEXTBOOK)

[Book mark Address Bar Address Home Page Web Page URL]

- Web Page is one single page of information which can be displayed in a web browser.
- To open a website, URL is entered in Address Bar.
- Each website has a unique address which is identified by it URL.
- Book mark button on a web page can be used to save it for easy and quick access.
- First page of a website is termed as Home page.

C. Write T for true and F for False statements. (to be done in TEXTBOOK)

- Telephone line is used to set up an internet connection. True
- First page of any website is called web page. False

3. Internet can be used for listening to music. **False**
4. Clicking NEW TAB on top of the web browser will open a new web page in a different window. **True**
5. All the information available on internet is stored in web browsers. **False**

D. Match the following.(to be done in TEXTBOOK)

- | | |
|------------------------|------------------------------|
| 1. Web browser | a. Internet Service Provider |
| 2. Internet Connection | b. E-mail |
| 3. Refresh button | c. Firefox |
| 4. Send text messages | d. Modem |
| 5. ISP | e. Reload a web page |

Ans: 1- c 2- d 3- e 4- b 5- a

E. Answer the following questions.(to be done in NOTEBOOK)

1. What are the uses of internet?

Ans: Search Information, E-mailing, Download or Upload, Booking Tickets, Money Transfer, Online Shopping,.

2. What is website?

Ans: It is collection of one or more pages of website with common information. It is the storehouse of all the information on the internet.

3. What is a web page?

Ans: It is one single page of information which can be displayed on internet through a web browser like Google Chrome. It can contain text, music, videos and links to other web pages.

4. How is an internet connection established?

Ans: To establish internet connection things, following things are required. Modem, Internet Connection, Telephone Line and Web Browser, Computer.

5. How will you use a web browser?

Ans: A web browser helps us in browsing various pages or website through the internet.

F. Application based question.(to be done in NOTEBOOK)

Write any five rules which should be followed for staying safe on the internet.

- Ans:-
1. Make sure internet connection is secure.
 2. Keep Personal Information professional and limited.
 3. Choose strong password and don't share it with anyone.
 4. Make online purchase from secured sites only.
 5. Be careful what you post on social website.

• On the Magic Machine.(to be done in PRACTICALLY)

Go to your computer lab and with the permission of your teacher, search for information on the social reformers of India on the internet.

COMPETENCY BASED COMPETITION QUESTIONS[CBE]

[TO BE DISCUSS IN CLASS ORALLY]

1. Riya wants to search on 'IMAGES OF FLOWER' so, which one is the best search engine to search quickly?
 - A) **Google**
 - B) Yahoo
 - C) Bing
2. Aman is typing URL of website in web browser window, name that box where URL is typed by Aman?
 - a) **Address Bar**
 - b) Menu bar
 - c) Title bar
3. Siya wants to establish the internet connection at home, so what are the two basic requirements for connecting to the internet?
 - a) Computer device
 - b) ISP
 - c) **Both**

4. Riya is doing chatting with her friends, from the following which type of application she is using?

- a) WhatsApp
- b) You tube
- c) Google earth

5. While purchasing internet service pack you have to take care of_____.

- a) Modem
- b) Internet Connection
- c) Both a and b

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L.6 MSW LOGO: Repeat Command and Creating Procedure

TEXTBOOK PAGE NO. 63

LET US ENTER TO BE DONE IN TEXTBOOK.

Exercises

Page No. 66

A. Fill in the blanks. (to be done in textbook)

1. REPEAT <no. of turns> command helps us to form a polygon.
2. REPEAT commands enable us to give a set of commands altogether in the computer.

B. Match the following. (to be done in textbook)

	Coloum A		Coloum B
1.	Triangle	a.	72 units
2.	Pentagon	b.	120 units
3.	Hexagon	c.	45 units
4.	Square	d.	90 units
5.	Octagon	e.	60 units

ANS: 1- b 2- a 3- e 4- d 5- c

Page No. 67

C. Write the commands of the following. (to be done in Notebook)

1. Triangle: REPEAT 3 [FD 100 RT 120]
2. Square: REPEAT 4 [FD 100 RT 90]
3. Half circle: REPEAT 180 [FD 1 RT 1]
4. 270 degree curve: REPEAT 270 [FD 1 RT 1]
5. Circle: REPEAT 360 [FD 1 RT 1]

D. Answer the following questions.(to be done in Notebook)

1. What is REPEAT command?

Ans: REPEAT command is used to give set of commands to the Logo to be repeated a specific number of times without typing them out again and again.

Extra Questions

1. Write the full form of the following command of MSW Logo.

- Ans:**
1. FD- Forward
 2. BK- Backward
 3. RT- Right
 4. LT- Left
 5. CS- Clear Screen
 6. CT – Clear Text
 7. PR- Print
 8. HT- Hide Turtle
 9. ST- Show Turtle
 10. PD – Pen Down
 11. PU – Pen Up
 12. PE – Pen Erase
 13. PPT- PenPaint
 14. SETPC- Setpencolor

2. Find the error and rewrite the following using correct syntax.

a. To draw a square of 50 units: Repeat 4[fd 50 rt 45]

Ans: Repeat 4 [fd 50 rt 90]

b. To draw a circle: Repeat 1[fd 1 rt 1]

Ans: Repeat 360 [fd 1 rt 1]

c. To draw a semicircle: Repeat 180{fd 1 rt 1}

Ans: Repeat 180 [fd 1 rt 1]

Page No. 67

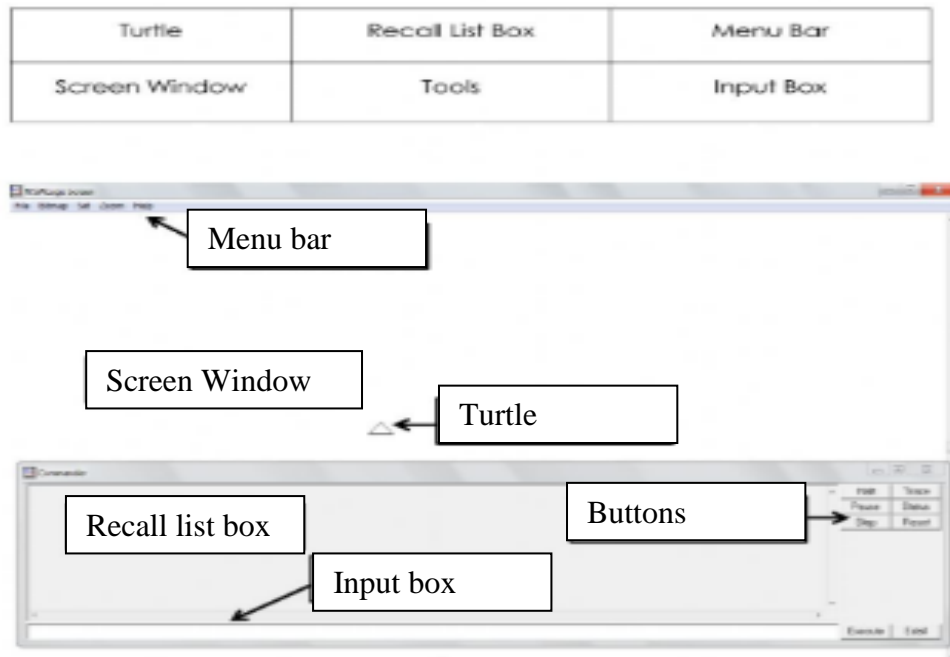
On the Magic Machine (to be done Practically in the Computer Lab)

Page No. 67

Fun in Fairy Land (to be done Practically in the Computer Lab)

CBE BASED QUESTIONS

1. Label the following diagram.



2. Riya wants to print 24 in main screen, which command will use to Print data in main screen

Ans: Label command will be used which will be written as follows.

LT/RT 90 LABEL 24

4. Find the error and rewrite using correct syntax.

- a. F20D- FD 20
- b. BYE EXIT - BYE
- c. PRINT SUM 20 30 40- PRINT (SUM 20 30 40)

5. Siya wants to draw square in MSW Logo by using repeat command. What is the correct way to write the command to draw square with 100 units in MSW logo.

Ans: REPEAT 4 [FD 100 RT 90]

Practical

- 1) Indian National Flag using Repeat command wherever required.
- 2) Draw Olympics Logo using Repeat Command wherever required.

Note: Any practical from the above or from the Exercise can be asked during Examination.

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L.5 More About MSW LOGO

Exercises

Page No. 52 Let's Enter. (To be done in Textbook)

Page No. 54 Activity Land. (To be done Practically in Lab)

Page No. 58 Activity Land. (To be done Practically in Lab and Draw the result in the Notebook)

Page No. 60 Activity Land. (To be done Practically in Lab and Write the result in the Notebook)

Page No. 61

A. Put a tick (✓) on the correct option.

1. Command to erase the line drawn by the turtle.
 - a) **PENERASE** (✓)
 - b) PENPAINT
 - c) SETPENCOLOR
 - d) None of these
2. Command used to change the color of the pen of the turtle.
 - a) PENPAINT
 - b) PENDOWN
 - c) **SETPENCOLOR** (✓)
 - d) None of these
3. Command used to lift the pen of the turtle.
 - a) **PENUP** (✓)
 - b) PENDOWN
 - c) PENPAINT
 - d) None of these
4. _____ command is used to put the turtle pen down
 - a) **PENDOWN** (✓)
 - b) PENPAINT
 - c) PENERASE
 - d) None of these

5. Command used to display text or perform calculations on the commander window.
- a) **PRINT** (✓)
 - b) HOME
 - c) LEFT
 - d) None of these

B. Fill in the blanks.

**PENERASE PRIMITIVE PENDOWN PRIMITIVE
PRINT PRIMITIVE CLEARTEXT (CT) PENUP PRIMITIVE**

- 1. **PENUP** is used to lift the pen of the turtle.
- 2. **CLEARTEXT (CT)** command clears the command window too.
- 3. **PRINT PRIMITIVE** Command helps us to display a text or perform calculations.
- 4. **PENERASE PRIMITIVE** helps us to erase the line.
- 5. **PENDOWN PRIMITIVE** command is given after the PU command to bring the turtle back to paint mode.

C. Answer the following questions.

- 1. Why is HOME primitive used?

Ans: This command is used to bring the turtle, back to its home position.

- 2. What is the use of PENDOWN command?

Ans: Pendown command is used to put the pen of the turtle down after the Penup command. The short form is PD

- 3. What is the use of PENUP command?

Ans: Penup command is used to lift the turtle from its position and move it without drawing a line along its path. Short form of PENUP primitive is PU.

- 4. Why is CLEAN primitive used?

Ans: This command is used when the whole graphic window is to be cleared.

- 5. What is the use of PENPAINT command?

Ans: It is used after the PENERASE mode to bring back the turtle to Paint mode. Its short form is PPT.

D. Picture Activity.

Draw the figures which you can draw in Logo by using the commands which you have learnt in this chapter. **HOMEWORK**

Fun in Fairyland [To be done practically.]

Wise owl's challenge [To be done practically.]

CBE BASED QUESTIONS

1. Which button in the commander window is used to stop the program Execution temporarily?
a) Pause button b) Start button c) Stop button
2. If we want to return back in our starting point, we will choose_____
a) Houe b) Go to start c) home
3. Riya wants to erase all the commands from the commander window, which Command will help her to erase all the commands?
a) CT b) CS c) Clean
4. Neha wants to draw blue lines in MSW Logo, Write the command that will help him to do so in MSW Logo.
a) Setpencolour 1 b) Setpencolour 3 c) Setpencolour 3
4. Look at the picture below which commands should you use to finish Letter L ?



a) It 90 RT 90

b) RT 90 FD 100

C) FD 100