Class 3 PT2 - Revision Pointers

Chapter 6 - Introduction to MSW LOGO

INTRODUCTION

MSW LOGO & Its Use
MSW LOGO is a simple programming language used to **draw figures**, **write text**, and **do simple calculations**. It is mainly used for creating graphics.

Full Form of LOGO
LOGO stands for **Language of Graphic Oriented**. It helps us draw pictures using commands.

LOGO Screen Windows
MSW LOGO has **two windows**. The **upper window** shows drawings and graphics, and the **lower window (command box)** is used to type commands.

Turtle (Cursor)
The cursor in LOGO is called the **turtle**. It is a **small triangle** that moves on the screen and draws a **line** behind it.

Turtle Direction
The **tip of the triangle** shows the direction the turtle is facing. The turtle draws lines in **black colour by default**.

LOGO Commands (Primitives)
The commands typed in the command box are called **primitives**. MSW LOGO commands are **not case-sensitive**.

MOVEMENT & TURN COMMANDS

FD and BK Commands
FD moves the turtle **forward** and BK or BACK moves it **backward** by given steps.

RT and LT Commands
RT turns the turtle to the **right** and LT turns it to the **left** by a given angle like 90° or 120°.

Correct Writing of Commands
There must be a **space between command and number**, for example: FD 45, RT 90, LT 180.

SCREEN & CONTROL COMMANDS

HOME Command
The HOME command brings the turtle back to its **starting (center) position** without clearing the drawing.

CS and CT Commands
CS (Clear Screen) clears the drawing and brings the turtle home.
CT (Clear Text) clears the **command/recall list box only**.

BYE Command
The BYE command is used to **exit MSW LOGO**.

HT and ST Command
ST stands for **Showing turtle** whereas HT stands for **Hide Turtle**. HT hides the turtle but keeps the drawing visible.

ERROR CORRECTION & SHORTCUTS

Shortcut Commands
Short forms make work easy, such as:
FD–Forward, BK–Back, RT–Right Turn, LT–Left Turn, CS–Clear Screen, CT–Clear Text.

Correcting Wrong Commands
LOGO does not accept joined words or symbols.
Example: RIGHT-TURN ✗ → RT ✓, MOVE_FORWARD ✗ → FD ✓, BYEBYE ✗ → BYE ✓.

DRAWING SHAPES

1. Square	2. Rectangle	3. Triangle
FD 50	FD 80	FD 60
RT 90	RT 90	RT 120
FD 50	FD 40	FD 60
RT 90	RT 90	RT 120
FD 50	FD 80	FD 60
RT 90	RT 90	RT 120
FD 50	FD 40	
RT 90	RT 90	

IMPORTANT FACTS

LOGO Commands & Uses
LOGO has **many commands**. It is mainly used for **graphics** and also supports **calculations**.

Rotation & Safety Facts
RT turns right and LT turns left.
HOME does **not** exit LOGO.
We can start a new drawing after using **CS**.

BOOK WORK

(2) The lower window in Logo is used to
  (a) display the graphics. ☐
  (b) display the Turtle. ☐
  (c) write the commands. ☑
  (d) none of the above. ☐

(3) The upper window in Logo is used to
  (a) write the commands ☐
  (b) execute the commands ☐
  (c) display graphics ☑
  (d) display the command list ☐

(4) To exit Logo, which command is used?
  (a) Alt + F4 ☐
  (b) Close button ☐
  (c) Exit ☐
  (d) Bye ☑

(5) The commands in Logo are case-sensitive.
  (a) True ☐
  (b) False ☑
  (c) some commands ☐
  (d) none of the above ☐

(6) To move the Turtle forward, which command is used?
  (a) FD ☒
  (b) FWD ☐
  (c) Forward ☐
  (d) Both a and c ✓

(7) Which command is used to return the Turtle to its starting position?
  (a) LT ☐
  (b) RT ☐
  (c) MOVE ☐
  (d) HOME ☑

(8) Which command is used to clear the command window?
  (a) CS ☐
  (b) CLEARSCREEN ☑
  (c) CLEARTEXT ☐
  (d) All of the above ☑

(9) Correct the error in FD50.
  (a) FD_50 ☐
  (b) FD 50 ☑
  (c) FORWARD–50 ☐
  (d) FD–50 ☐

(10) By default, what is the color of lines drawn by Turtle?
  (a) Black ☑
  (b) Blue ☐
  (c) Red ☐
  (d) Green ☐

State whether the given statements are True or False.

(1) MS LOGO is mainly used for creating graphics. _True_

(2) The tail of of triangle shows you which direction it is facing. _False_

(3) There are about 200 Logo commands. _True_

(4) The Back Command moves the Turtle forward step by step. _False_

(5) The command RT 90 rotates the Turtle by an angle of 90 degrees towards its left. _False_

(6) You can start a new drawing after the Clear Screen command. _True_

(7) The command LT 45 rotates the Turtle by an angle of 45 degrees towards its left. _True_

(8) The Home command exits from the LOGO program. _False_

(9) The Clear Text command clears the commands in the Recall List Box. _True_

(10) The MSW Logo Commands are case-sensitive. _False_

Answer the following in brief.

Q3. Answer the following in brief.

(1) What is MSW Logo?

Ans: MSW Logo is a simple language used to draw figures, write text and do calculations.

(2) Explain the Turtle in MSW Logo.

Ans: Turtle is the small triangle to draw on the screen.

(3) Where do you type the commands on a Logo screen?

Ans: We type the commands in Command input box.

(4) Give the difference between CS and CT commands.

Ans: CS - It clears the screen and brings the turtle back to the center.
CT - It clears only the Text area but does not move the turtle.

(5) Write the steps to save a file in Logo.

Ans: 1. Click on the File menu.
2. Select Save or Save As.
3. Type a file name in the box.
4. Click OK to save the file.