



**I. Choose the correct answer:**

1. The diagrammatic representation of an algorithm is  
 a) **Flow chart**                      b) Pseudo code                      c) Chart                      d) graph
2. A set of commands that are given to the computer to perform a specific task is  
 a) Algorithm                      b) Flow chart                      **c) Program**                      d) Source
3. A set of well-defined steps or instructions for completing a task systematically is  
 a) Pseudo code                      **b) Algorithm**                      c) Flow chart                      d) Program
4. This box is used to show actions or processes such as addition and subtraction.  
 a) Terminal Box                      b) Decision Box                      **c) Process Box**                      d) None of these
5. The box used to indicate the beginning and the end of a flow chart is  
 a) Decision Box                      **b) Terminal Box**                      c) Input/Output Box                      d) None of these
6. The symbol used to show a jump from one point in the process flow to another is  
 a) Flow lines                      b) Oval                      **c) Connector**                      d) None of these
7. Repeating a set of instructions until a specific condition is fulfilled is known as  
**a) Looping**                      b) Algorithm                      c) Program                      d) Flow chart
8. Which command is used at the beginning of a flow chart ?  
**a) Start**                      b) Begin                      c) Input                      d) None of these
9. Which symbol is used to test condition in a flow chart ?  
 a) Terminal                      **b) Decision**                      c) Process                      d) Input/Output
10. Flow charts were introduced and used by  
 a) Charles Babbage                      **b) Frank Gilbreth**                      c) Billgates                      d) Steve Jobs

**II. Fill in the blanks:**

1. A **Flow chart** is a pictorial representation of steps that should be followed to solve a problem.
2. A **Terminal** box is used at the beginning and end of a flow chart.
3. A process box is **rectangular** in shape.
4. A **connector** symbol is used to connect parts of a flow chart that are on different pages.
5. **Flow lines** symbols are used to connect one box of flow chart to another.
6. The steps of the **algorithm** should be presented in separate lines.

**III. State TRUE or FALSE:**

1. A Flow chart is represented by standard symbols. - TRUE
2. The word algorithm is derived from the name of an Indian Mathematician. - FALSE
3. A Decision box is represented by a rectangular shape. - FALSE
4. Flow charts were introduced and used by Frank Gilbreth. - TRUE
5. A well written algorithm or flow chart helps in writing good programs. - TRUE

**IV. Answer in TWO or THREE lines:**

**1. Define Program.**

A Program is a set of commands that are given to the computer to carry out a specific task.

**2. Define Algorithm.**

An Algorithm is a list of well-defined steps or instructions for completing a task systematically. An Algorithm helps us to think logically and to find out the best way to solve a problem and reach a solution.

**3. Define Flow Chart.**

A Flow chart is a diagrammatic representation of steps to be taken to solve a problem. A Flow chart is pictorial in nature and facilitates easy understanding of the solution.

**4. What is Looping ?**

Repeating a set of instructions until a specific condition is fulfilled is known as Looping.

**5. What is the use of a Terminal box ?**

A Terminal Box is used to indicate the beginning and the end of a flow chart. It is represented by the oval shaped symbol.

**6. What is the use of connector symbol ?**

A Flow chart may be long and span one or more pages. A connector is used to show a jump from one point in the process flow to another.

**7. List out the special softwares used to draw flow charts.**

a) Edraw                      b) SmartDraw                      c) Visio

**V. Answer in detail:**

**1. Write an Algorithm to calculate the Area of a Square.**

Step 1 : Start the Execution.

Step 2 : Input Side

Step 3 : Area = Side \* Side

Step 4 : Print Area

Step 5 : Stop the Execution

**2. Write an Algorithm to find the Sum of 2 Numbers.**

Step 1 : Start the Execution.

Step 2 : Input A , B

Step 3 : C = A + B

Step 4 : Print C

Step 5 : Stop the Execution

**3. Write an Algorithm to calculate the Area of a Rectangle.**

Step 1 : Start the Execution.

Step 2 : Input L , B

Step 3 : Area = L \* B

Step 4 : Print Area

Step 5 : Stop the Execution

**4. Write an Algorithm to find the Perimeter of a Rectangle.**

Step 1 : Start the Execution.

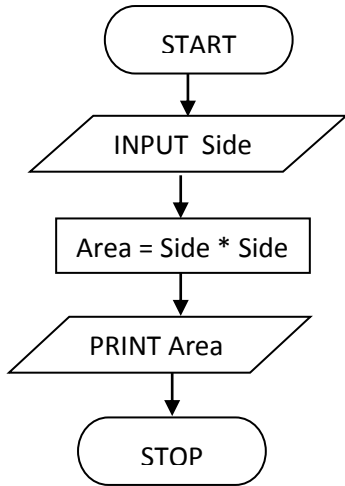
Step 2 : Input L , B

Step 3 : P = 2 \* (L + B)

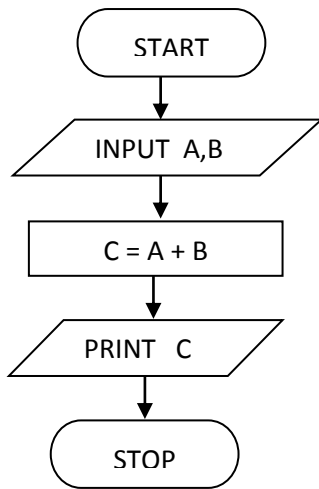
Step 4 : Print P

Step 5 : Stop the Execution

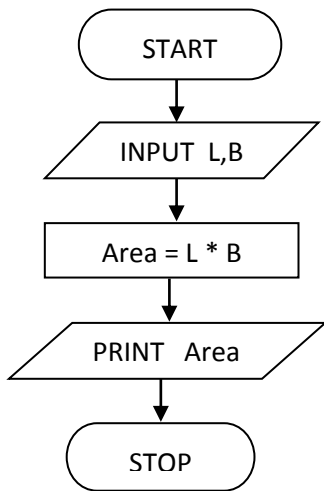
5. Draw a Flow chart to find the Area of a Square.



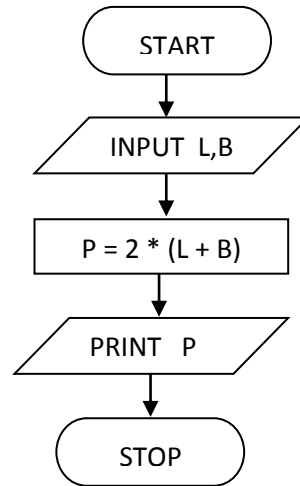
6. Draw a Flow chart to find the Sum of 2 Numbers.



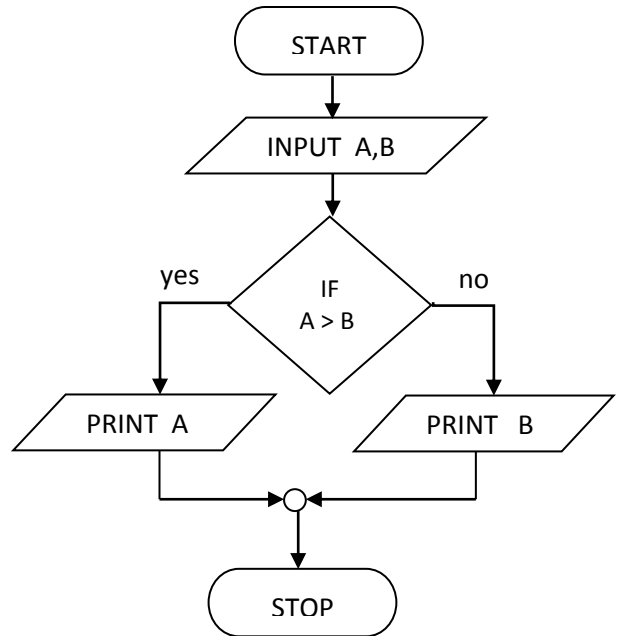
7. Draw a Flow chart to find the Area of a Rectangle.



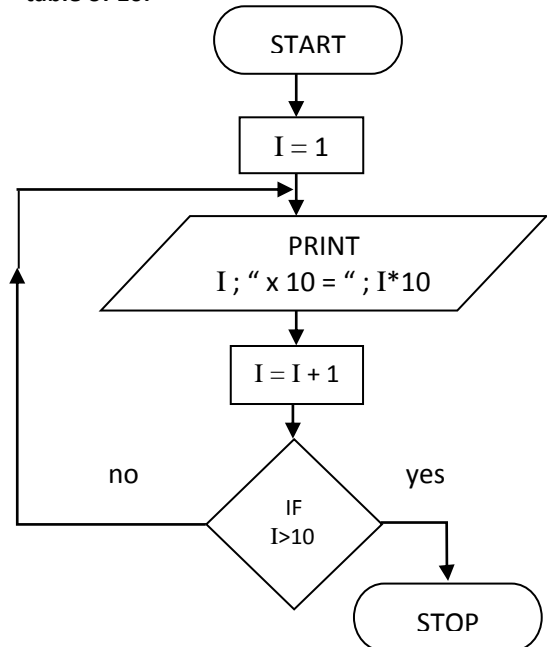
8. Draw a Flow chart to find the Perimeter of a Rectangle.






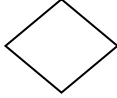

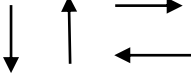
9. Draw a Flow chart to find the Greater among two Numbers.



10. Draw a Flow chart to calculate and display the table of 10.



11. Draw all the Symbols used in Flow chart and its functions.

Name	Symbol	Function
Oval		Start / Stop
Parallelogram		Input / Output
Rectangle		Process
Diamond		Decision
Circle		Connector
Arrows		Flow Lines

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