Words to Know

- **Algorithm:** A list of well-defined instructions for completing a task.
- **Flowchart:** A diagrammatic representation of steps taken to solve a problem or a graphical representation of an algorithm.
- **Loop:** A set of instructions executed repeatedly till the condition is satisfied.

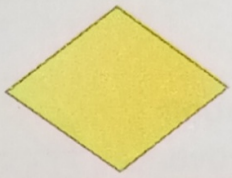
RECAP ZONE

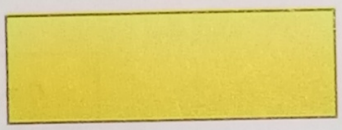
- A flowchart is a diagrammatic representation of steps taken to solve a problem.
- A well written algorithm or flowchart helps in writing good programs.
- Special geometrical shapes or symbols are used to represent the operations in a flowchart.

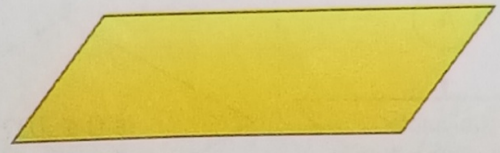
ASSESSMENT ZONE

A. Choose the correct answer.

1. The statement 'C=C+1' will be written in which of the following symbol?

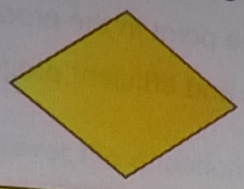
a) 

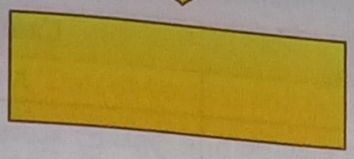
b) 

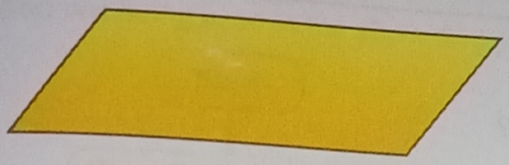
c) 

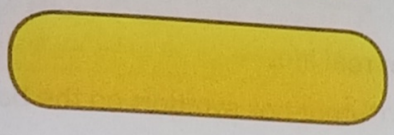
d) 

2. Which of the following symbols is used to represent conditions in flowchart?

a) 

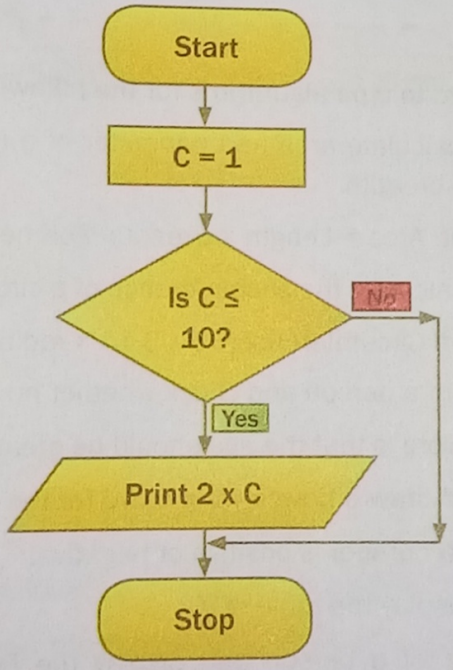
b) 

c) 

d) 

3. Consider the following flowchart. What value will it display?

a) 1 b) 2 c) 3 d) No value is displayed



B. Fill in the blanks.

looping	connector	parallelogram	algorithm	rectangle

1. The input/output box is represented by a Parallelogram
2. Repeating a set of instructions until a specific condition is fulfilled is known as looping.

3. The process box is represented by a rectangle.
4. A Connector is used to show a jump from one point in the process flow to another.
5. A good Algorithm helps us to write effective and efficient programs.

C. Complete the following table.

Symbol	Significance	Example
Diamond shape	It takes decision	A > B
Parallelogram	It displays the output on the screen.	2+5 = 7

D. Answer the following questions.

1. Define algorithm. What are its advantages?
2. Define flowcharts. State its significance.
3. Define looping. Give an example of looping from real life.
4. Differentiate between the Connector and Input/Output box symbols on the basis of the following parameters.
   a) Purpose
   b) Symbol Used

Question/Answer Computer

Ch-08

Algorithms and flowchart

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① Answer the following questions.

① Define Algorithm. What are its Advantages?

Ans→ An algorithm is a list of well-defined steps or instructions for completing a task systematically.

Advantages of Algorithm —

→ ① An algorithm helps us to think logically to find out the best way to solve a problem and reach a solution.

→ ② A good algorithm helps us to write effective and well-organised programs. It is on the basic on which the compactness of the program depend.

② Define flowcharts. State its significance.

Ans→ A flowchart is a diagrammatic representation of steps to be taken to solve a problem. It is pictorial in nature and facilities easy understanding of the solution. In a flowchart, geometrical shapes or symbols are used to represent the operation and their order is shown by connecting them with arrows. It is represented by various symbols.

③ Define looping. Give an example of looping from real life.

Ans→ A set of instructions executed repeatedly till the condition is satisfied. ~~Outer is an example of a loop where the bus goes around and around~~

Ex → Eating food one spoonful at a time is an example of loop in real life.

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④ Differentiate between the Connector and Input/Output box symbols on the basis of the following parameters.

ⓐ Purpose

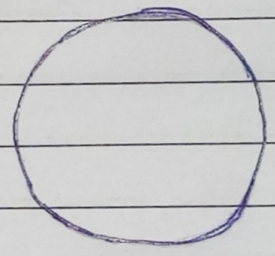
→ Connector is used to show a jump from one point in the process flow to another. It connects different parts of a flowchart that are split between pages.

But

Input/output box is used to accept input or display output.

ⓑ Symbol used

→ Connector →



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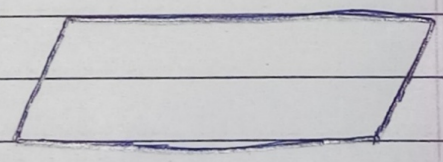
Input/output Box →



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