
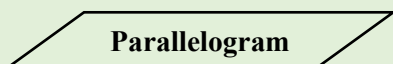
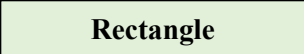

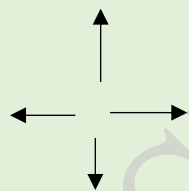


Algorithm & Flowchart

- ❖ An algorithm is the step-by-step procedure for solving a problem.
- ❖ A flowchart is the pictorial representation of an algorithm.

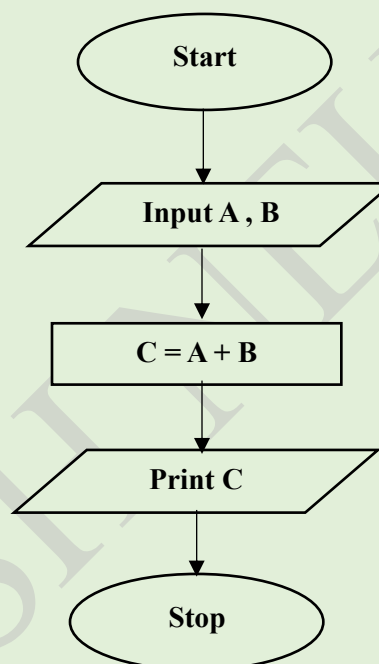
Symbols	Meanings
 <p>Oval</p>	Start / End
 <p>Parallelogram</p>	Input / Output
 <p>Rectangle</p>	Processing
 <p>Diamond</p>	Decision Making
	To show the flow (next step)

Question 1: Write algorithm and draw flowchart to add two numbers.

Algorithm

- Step 1: Start
- Step 2: Input two numbers and store in A and B
- Step 3: ADD A and B and store the result in C
- Step 4: Print C
- Step 5: Stop

Flowchart

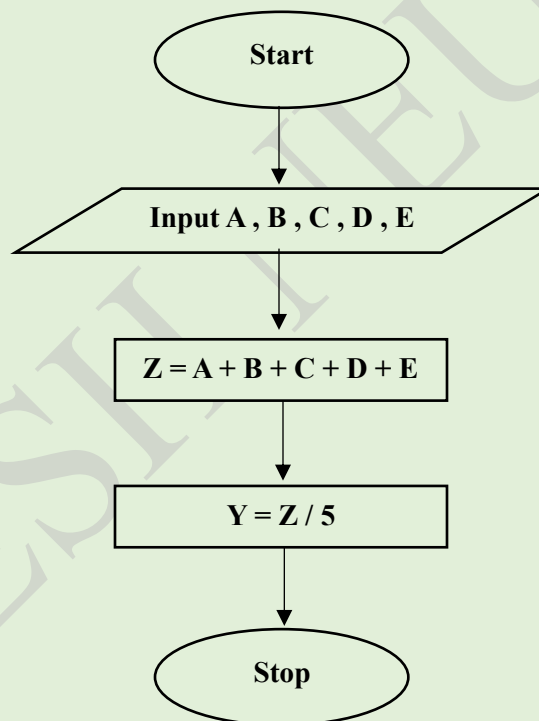


Question 2: Write algorithm and draw flowchart to find average of 5 numbers.

Algorithm

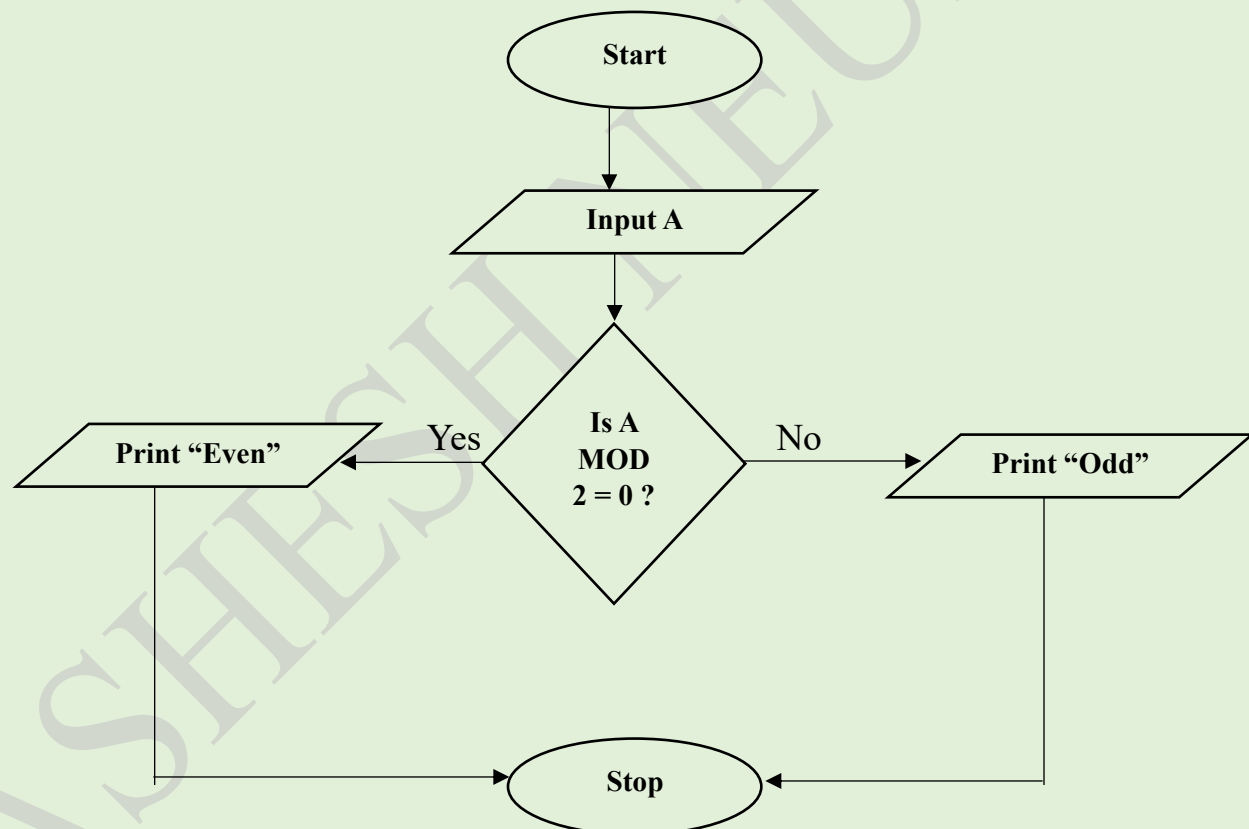
Step 1: Start
Step 2: Input five numbers and store in A , B , C , D and E.
Step 3: ADD A , B , C , D and E and store result in Z.
Step 4: DIV Z by 5 and store result in Y.
Step 5: Print Y
Step 6: Stop

Flowchart



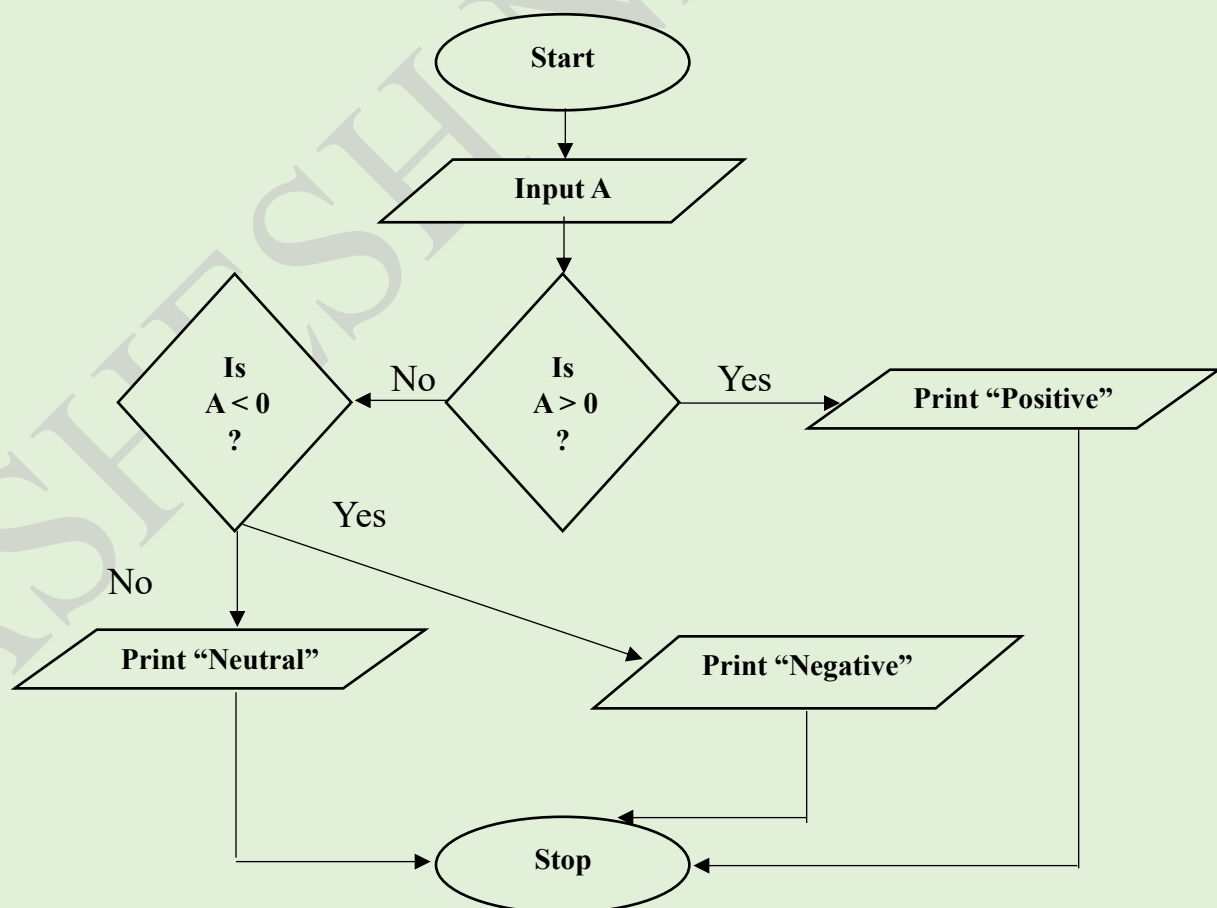
Question 3: Write algorithm and draw flowchart to check odd/even.**Algorithm**

Step 1: Start
Step 2: Input a number and store in A.
Step 3: IF $A \text{ MOD } 2 = 0$. THEN
 Print “Even” and goto Step 4.
 ELSE
 Print “Odd” and goto Step 4.
 END IF
Step 4: Stop

Flowchart

Question 4: Write algorithm and draw flowchart to check positive/negative/neutral.**Algorithm**

Step 1: Start
Step 2: Input a number and store in A.
Step 3: IF $A > 0$. THEN
 Print “Positive” and goto Step 4.
 ELSE IF $A < 0$. THEN
 Print “Negative” and goto Step 4.
 ELSE
 Print “Neutral” and goto Step 4.
 END IF
Step 4: Stop

Flowchart

Question 5: Write algorithm and draw flowchart to input a number, print all its factors and find their sum.

Algorithm

Step 1: Start
 Step 2: Input a number and store in N.
 Step 3: Store 1 in I & 0 in SUM.
 Step 4: IF $N \text{ MOD } I = 0$. THEN
 Print I
 $SUM = SUM + I$
 $I = I + 1$ and goto Step 5.
 ELSE
 $I = I + 1$ and goto Step 5.
 END IF
 Step 5: IF $I \leq N$. THEN
 goto Step 4.
 ELSE
 Print SUM and goto Step 6.
 END IF
 Step 6: Stop

Flowchart

