

### Experiment no – 01(a)

**Aim:** Write an algorithm and draw flowchart for Area of circle.

**Algorithm:**

Step 1: Start

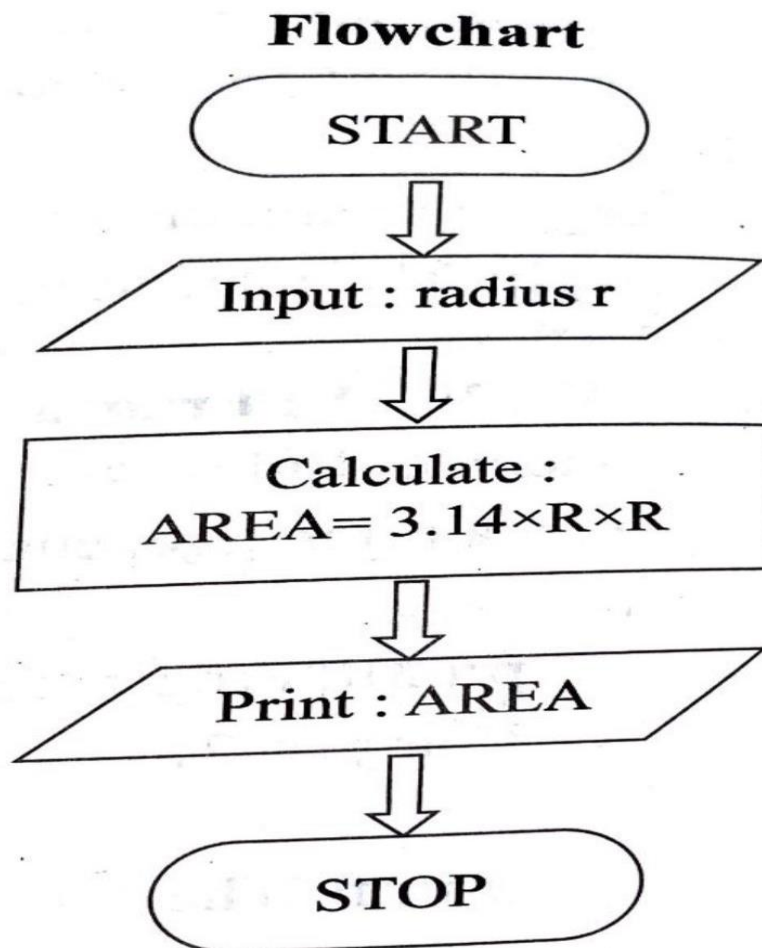
Step 2: Read the circle's radius R value.

Step 3: Calculate area of circle i.e.  $AREA = 3.14 \times R \times R$

Step 4: Print AREA

Step 5: Stop

**Flowchart:**



### Experiment no – 01(b)

**Aim:** Write an algorithm and draw flowchart to print the given no. is even or odd.

**Algorithm:**

Step 1: Start

Step 2: Read the number value NUM.

Step 3: Divide the NUM by 2 and store the remainder in REM

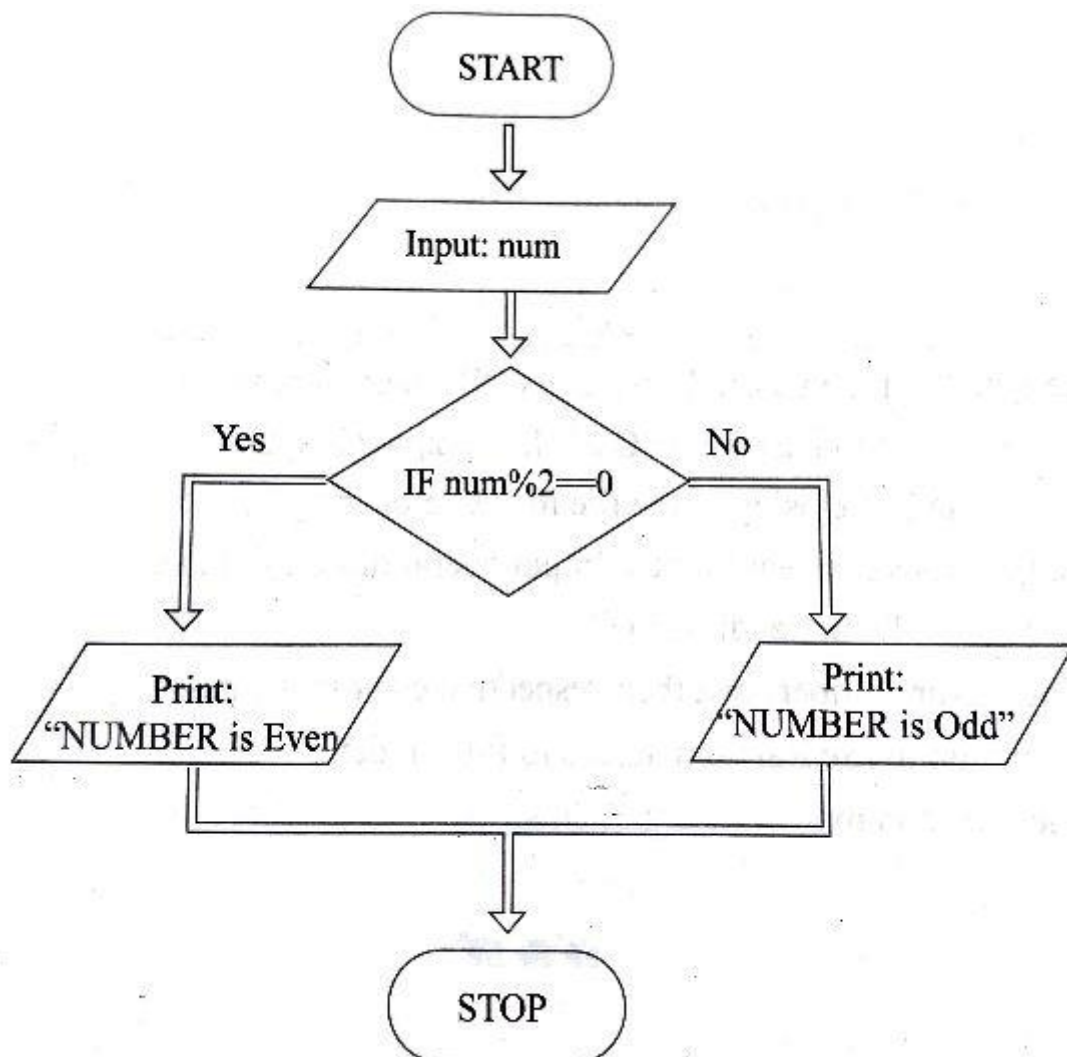
Step 4: If REM = 0 Then go to Step 6

Step 5: Print “NUMBER is Odd” go to step 7

Step 6: Print “NUMBER is Even”

Step 7: Stop

**Flowchart:**



### Experiment no – 01(c)

**Aim:** Write an algorithm and draw flowchart to print 1 to 10 numbers.

**Algorithm:**

Step 1: Start

Step 2: Initialize the variable  $NUM = 1$

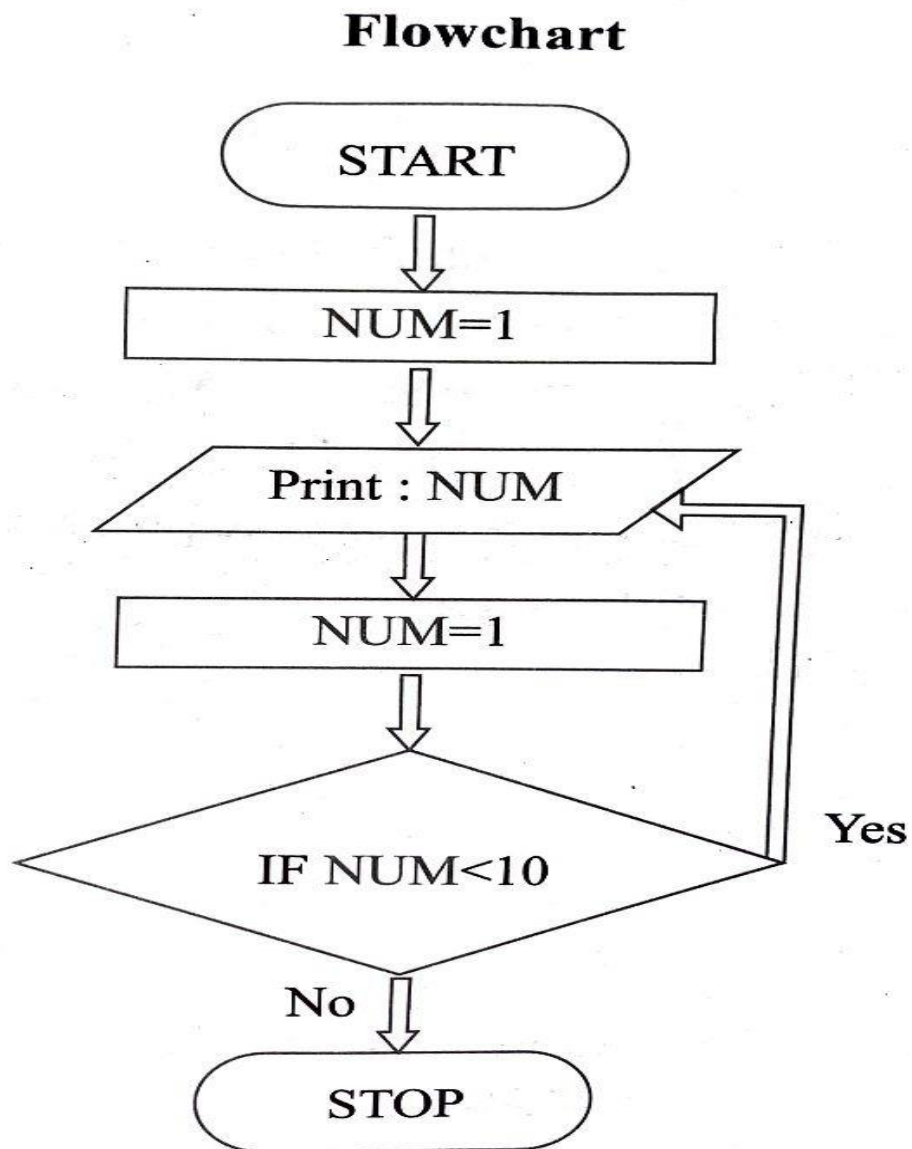
Step 3: Print NUM

Step 4: Increment NUM by 1  $NUM = NUM + 1$

Step 5: If  $NUM \leq 10$  go to Step 3

Step 6: Stop

**Flowchart:**



### Experiment no – 01(d)

**Aim:** Write an algorithm and draw flowchart for sum of 1 to 5 numbers.

**Algorithm:**

Step 1: Start

Step 2: Initialize the variable  $NUM = 1$  and  $SUM = 0$

Step 3:  $SUM = SUM + NUM$

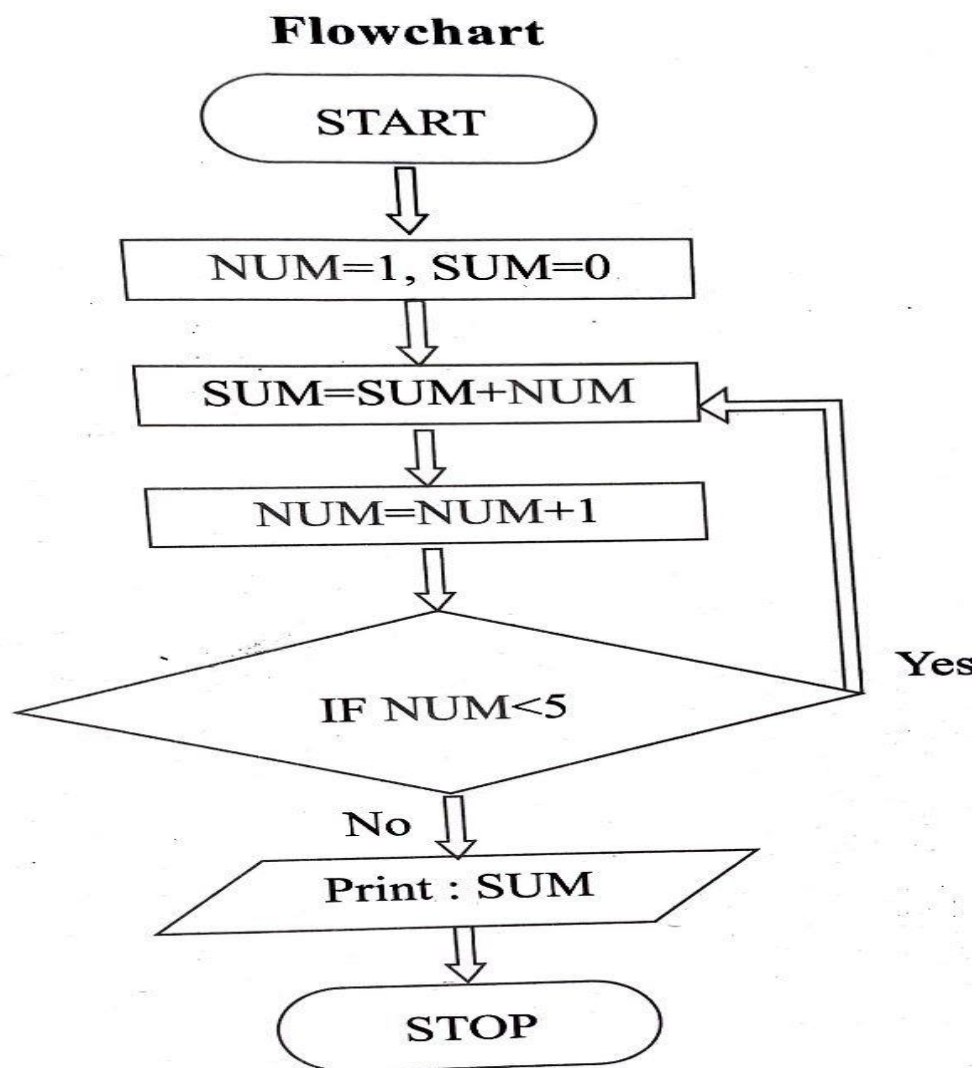
Step 4: Increment  $NUM$  by 1  $NUM = NUM + 1$

Step 5: If  $NUM \leq 5$  go to Step 3

Step 6: Print  $SUM$

Step 7: Stop

**Flowchart:**



### Experiment no – 01(e)

**Aim:** Write an algorithm and draw flow chart to compute the addition of digits of a given number.

**Algorithm:**

Step 1: Start

Step 2: Read the number value NUM

Step 3: Initialize SUM = 0

Step 4: Perform  $REM = NUM \% 10$  and add REM to SUM i.e.  $SUM = SUM + REM$

Step 5: Perform  $NUM = NUM/10$

Step 6: IF  $NUM = 0$  stop the process and Print SUM else go to Step 3

Step 7: Stop

**Flowchart:**

