### Experiment – No-3

|  |  |  |
| --- | --- | --- |
| Objective: Program to calculate the area and circumference of circle. | | |
| Scheduled Date | Compiled Date | Submission Date |
| 20-Dec-2020 | 20-Dec-2020 | 23-Dec-2020 |

### Program : A program to calculate the area and circumference of circle.

### Algorithm

Step 1: Start

Step 2: Declare variables r, A, C.

Step 3: Read value of r.

Step 4: Give A = 3.14 r \* r

C = 2 \* 3.14 \* r

Step 5: Print area and circumference using printf.

Step 6: Stop.

### Flowchart Segment:

Input=r

### 

Area=3.14\*r\*r

Circum=2\*3.142\*r

Output Area, Circum

**Program**

#include<stdio.h>

int main()

{

    float radius, area, circumference;

    printf("\nEnter the radius of circle: ");

    scanf("%f", &radius);

    area=3.14\*radius\*radius;

    circumference= 2\*3.14\*radius;

    printf("Area of circle: %f",area);

    printf("Circumference of circle: %f",circumference);

    return 0;

}

### Output Screen

Enter the radius of circle: 20

Area of circle: 1256.000000Circumference of circle: 125.599998