**LAB EXERCISES**

**EX.NO:02**

**AREA OF A CIRCLE AND RECTANGLE**

**AIM:**

**To write a C program to find the area of a circle and a rectangle (using preprocessing directory for defining pi value).**

**PROCEDURE:**

**1) Start the program.**

**2) Define the value of using a preprocessor directive : # define PI=3.14**

**3) Define variables:**

* **r→ radius of the circle.**
* **l→ length of the rectangle.**
* **b→ breadth of the rectangle.**

**4) Get input values for radius, length & breadth from the user.**

**5) Calculate:**

* **Circle area using: Circle area=PI × r × r**
* **Rectangle area using: Rectangle area = l × b.**

**6) Display the calculated areas of the circle and rectangle.**

**7) End the program.**

**PROGRAM:**

**#include <stdio.h>**

**#include <conio.h>**

**#define PI 3.14**

**void main()**

**{**

**float r, l, b, cir\_area, rect\_area;**

**clrscr();**

**printf("Enter the value of radius r\n");**

**scanf("%f", &r);**

**cir\_area = PI \* r \* r;**

**printf("Area of the circle is = %6.2f\n", cir\_area);**

**printf("Enter the value of length\n");**

**scanf("%f", &l);**

**printf("Enter the value of breadth\n");**

**scanf("%f", &b);**

**rect\_area = l \* b;**

**printf("Area of the rectangle is = %6.2f\n", rect\_area);**

**getch();**

**}**

**RESULT:**

**Thus the above C program is executed and the output is obtained.**