

C Programming Lab Manual

Experiment 1: Area and Circumference of a Circle

Aim

To write a C program to read the radius of a circle and compute the area and circumference.

Algorithm

1. Start.
2. Read the radius r .
3. Calculate area = $\pi \times r \times r$.
4. Calculate circumference = $2 \times \pi \times r$.
5. Display area and circumference.
6. Stop.

Program

```
#include <stdio.h>
#define PI 3.142

int main() {
    int r;
    double area, circum;

    printf("Enter radius of a circle: ");
    scanf("%d", &r);

    area = PI * r * r;
    circum = 2 * PI * r;

    printf("Area of a circle = %.2f\n", area);
    printf("Circumference of a circle = %.2f\n", circum);

    return 0;
}
```

Sample Output

```
Enter radius of a circle: 5
Area of a circle = 78.55
Circumference of a circle = 31.42
```

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