

C Programming Assignment 1

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1 Area of a circle.

```
#include <stdio.h>

int main() {
    float radius, area;
    float pi = 3.1416;

    printf("Enter radius of the circle: ");
    scanf("%f", &radius);

    area = pi * radius * radius;

    printf("Area of Circle = %.2f\n", area);

    return 0;
}
```



The image shows a code editor on the left and a terminal window on the right. The code in the editor is a C program to calculate the area of a circle. It includes the standard input/output header, defines a main function, declares variables for radius and area, sets pi to 3.1416, prompts the user for the radius, reads the input, calculates the area, and prints the result. The terminal window shows the program's execution: it prompts for the radius, the user enters 69, the program calculates the area as 14957.16, and prints the result. A success message is also displayed in the terminal.

```
1 #include <stdio.h>
2
3 int main() {
4     float radius, area;
5     float pi = 3.1416;
6
7     printf("Enter radius of the circle: ");
8     scanf("%f", &radius);
9
10    area = pi * radius * radius;
11
12    printf("Area of Circle = %.2f\n", area);
13
14    return 0;
15 }
16
```

Enter radius of the circle: 69
Area of Circle = 14957.16

=== Code Execution Successful ===

Figure 1: Enter Caption