

ECS-102 LAB TASK 2 - C INPUT/OUTPUT AND SCANF

COMMAND

Example for lab task: Float and Double Input/Output

```
#include <stdio.h>
int main()
{
    float num1;
    double num2;

    printf("Enter a number: ");
    scanf("%f", &num1);
    printf("Enter another number: ");
    scanf("%lf", &num2);

    printf("num1 = %f\n", num1);
    printf("num2 = %lf", num2);

    return 0;
}
```

Output

```
Enter a number: 12.523
Enter another number: 10.2
num1 = 12.523000
num2 = 10.200000
```

- We use %f and %lf format specifier for float and double respectively.
- In C programming, scanf() is one of the commonly used function to take input from the user. The scanf() function reads formatted input from the standard input such as keyboards.

- Notice, that we have used &num1 and &num2 inside scanf(). It is because &num gets the address of num, and the value entered by the user is stored in that address.

LAB TASK:

1) WAP to print the cube of any given number.

Expected Output

```
Enter a number:5
Cube of number is:125
```

2) WAP to print the sum of any 2 given numbers.

Expected Output

```
Enter first number:9
Enter second number:8
Sum of 2 numbers:17
```

3) WAP to print the character.

Expected Output

```
Enter a character: f
You entered: f
```

4) WAP to print area and circumference of the circle.

Expected Output

```
Enter radius of circle: 2
Area of circle is: 12.560000
Circumference of circle is: 12.560000
```

Format Specifiers for I/O

- %d for int
- %f for float
- %lf for double
- %c for char
- Don't forget to use & symbol inside scanf keyword

Instruction for Lab task submission :

You need to save the code file with .c extension and upload and turn in .c file in your respective Google classroom lab.

Save your .c file as “rollno_task2_Qno.c”

For eg. 2010704_task2_q1.c