



# East West University

**Department of Computer science and Engineering**

**Course Code:** CSE103- Structured Programming (LAB)

**Section No:** 03

**Date of submission:** 07-03-2023

**Submitted To:** Sumona Yeasmin

**Student's Name:** Mohammad Hasan Azhar

**Student's ID:** 2020-1-60-080

```
Lab1Task1_080.c
#include<stdio.h>

int main()
{
    int a=15, b=10;

    int sum = a+b;
    int difference = a-b;
    int product = a*b;
    int quotient = a/b;
    int remainder = a%b;

    printf("Sum is: %d\n", sum);
    printf("Difference is: %d\n", difference);
    printf("Product is: %d\n", product);
    printf("Quotient is: %d\n", quotient);
    printf("Reminder is: %d\n", remainder);

    return 0;
}
```

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task1\_080.exe"

Sum is: 25

Difference is: 5

Product is: 150

Quotient is: 1

Reminder is: 5

Process returned 0 (0x0) execution time : 1.418 s

Press any key to continue.

```
*Lab1Task2_080.c X
#include<stdio.h>

int main()
{
    double a;
    printf("Insert a double number: ");
    scanf("%lf", &a);

    double root = sqrt(a);
    printf("Square root is: %.2f\n", root);

    return 0;
}
```

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task2\_080.exe"

Insert a double number: 4.36  
Square root is: 2.09

Process returned 0 (0x0) execution time : 2.528 s  
Press any key to continue.

```
< Lab1Task3_080.c X
#include<stdio.h>

int main()
{
    int a, b;
    printf("Insert the number and the power: ");
    scanf("%d %d", &a, &b);
    int power = pow(a, b);
    printf("Power of the number is: %d\n", power);

    return 0;
}
```

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task3\_080.exe"

Insert the number and the power: 4 2  
Power of the number is: 16

Process returned 0 (0x0) execution time : 5.751 s  
Press any key to continue.

```
Lab1Task4_080.c X
#include<stdio.h>

int main()
{
    double cm, m, km;
    printf("Insert the centimeter: ");
    scanf("%lf", &cm);

    printf("Meter is: %.2lf\n", cm / 100);
    printf("Kilometer is: %.2lf\n", (cm / 100) / 1000);

    return 0;
}
```

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task4\_080.exe"

Insert the centimeter: 520000  
Meter is: 5200.00  
Kilometer is: 5.20

Process returned 0 (0x0) execution time : 58.253 s  
Press any key to continue.

```
Lab1Task5_080.c X
#include<stdio.h>
int main()
{
    int d, y, w;
    printf("Insert the day: ");
    scanf("%d", &d);
    printf("%d year(s) and %d day(s)\n", d / 365, d % 365);
    printf("%d week(s) and %d day(s)\n", d / 7, d % 7);
    return 0;
}
```

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task5\_080.exe"

Insert the day: 1000  
2 year(s) and 270 day(s)  
142 week(s) and 6 day(s)

Process returned 0 (0x0) execution time : 5.456 s  
Press any key to continue.

```
Lab1Task6_080.c ×
#include<stdio.h>
int main()
{
    float c, f;
    printf("Insert the Centigrade: ");
    scanf("%f", &c);
    f = ((c * 9) / 5) + 32;
    printf("The Fahrenheit is: %.2f\n", f);
    return 0;
}

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task6_080.exe"
Insert the Centigrade: 198
The Fahrenheit is: 388.40

Process returned 0 (0x0)   execution time : 7.051 s
Press any key to continue.
```

```
Lab1Task7_080.c ×
#include<stdio.h>
int main()
{
    float r, d, c, a, pi = 3.14159;
    printf("Insert the radius: ");
    scanf("%f", &r);
    printf("The diameter is: %.2f\n", 2 * r);
    printf("The circumference is: %.2f\n", 2 * pi * r);
    printf("The area is: %.2f\n", pi * r * r);
    return 0;
}

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task7_080.exe"
Insert the radius: 5
The diameter is: 10.00
The circumference is: 31.42
The area is: 78.54

Process returned 0 (0x0)   execution time : 8.486 s
Press any key to continue.
```

```
Lab1Task8_080.c
#include<stdio.h>
int main()
{
    int x1, x2, y1, y2;
    printf("Insert x1, x2: ");
    scanf("%d %d", &x1, &x2);
    printf("Insert y1, y2: ");
    scanf("%d %d", &y1, &y2);
    int x, y;
    x = x1 - x2;
    y = y1 - y2;
    double d = sqrt(pow(x, 2) + pow(y, 2));
    printf("The Euclidean distance is: %.6f\n", d);
    return 0;
}
```

"D:\EWU Books And Files\10th Semester\CSE 103\Lab1\Lab1Task8\_080.exe"

Insert x1, x2: 4 2  
Insert y1, y2: 5 3  
The Euclidean distance is: 2.828427

Process returned 0 (0x0) execution time : 80.630 s  
Press any key to continue.