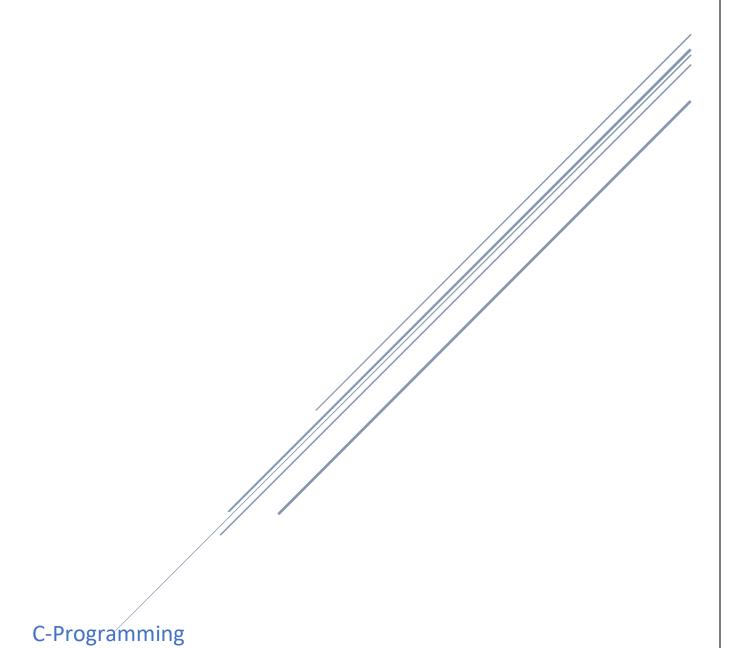
ASSIGNMENT 1

ENG/Mostafa Hassan Aboshaker

Lecture 3



```
EX1:
Write C Program to Print a Sentence
i should see the Console as following:
#########Console-output###
C Programming
#############################
1 #include <stdio.h>
 3⊖int main() {
      printf("C Programming\n");
 5
      return 0;
 6 }
 7
EX2:
Write C Program to Print a Integer Entered by a User
i should see the Console as following:
#########Console-output###
Enter a integer: 25
You entered: 25
#############################
1 #include <stdio.h>
 3⊖int main() {
      int Input;
 4
      printf("Enter an integer: ");
 6
     scanf("%d",Input);
 7
     printf("You entered: %d\n",Input);
 8
      return 0;
 9
10
```

```
EX3:
Write C Program to Add Two Integers
i should see the Console as following:
#########Console-output###
Enter two integers: 12
11
Sum: 23
#############################
#include <stdio.h>
□int main() {
    int num1, num2, sum;
    printf("Enter two integers: ");
    scanf("%d %d", &num1, &num2);
    sum = num1 + num2;
   printf("Sum: %d\n", sum);
    return 0;
}
EX4:
Write C Program to Multiply two Floating Point Numbers
i should see the Console as following:
#########Console-output###
#############################
Enter two numbers: 2.4
1.1
Product: 2.640000
#include <stdio.h>
□int main() {
    float num1, num2, product;
    printf("Enter two numbers: ");
    scanf("%f %f", &num1, &num2);
    product = num1 * num2;
   printf("Product: %.6f\n", product);
    return 0;
}
```

```
EX5:
Write C Program to Find ASCII Value of a Character
#########Console output#####
Enter a character: G
ASCII value of G = 71
#include <stdio.h>
int main() {
   char character;
   printf("Enter a character: ");
   scanf(" %c", &character);
  printf("ASCII value of %c = %d\n", character, character);
   return 0;
}
EX6:
Write Source Code to Swap Two Numbers
#########Console output#####
Enter value of a: 1.20
Enter value of b: 2.45
After swapping, value of a = 2.45
After swapping, value of b = 1.2
###############################
#include <stdio.h>
int main() {
   double a, b, temp;
   printf("Enter value of a: ");
   scanf("%lf", &a);
   printf("Enter value of b: ");
   scanf("%lf", &b);
   temp = a;
   a = b;
   b = temp;
   printf("After swapping, value of a = %.21f\n", a);
   printf("After swapping, value of b = %.21f\n", b);
   return 0;
}
```

```
EX7:
it is an interview trick
Write Source Code to Swap Two Numbers without temp variable.
1 #include <stdio.h>
3⊖int main() {
4
       double a, b;
5
       printf("Enter value of a: ");
 6
       scanf("%lf", &a);
 7
       printf("Enter value of b: ");
8
       scanf("%lf", &b);
9
10
       a = a + b;
11
12
       b = a - b;
13
       a = a - b;
14
15
       printf("After swapping, value of a = %.21f\n", a);
16
       printf("After swapping, value of b = %.21f\n", b);
17
18
       return 0;
19 }
20
```