**Assignment 2**

1. **Write a program that allows the user to enter a number then print it.**

1. **Write C# program that converts a string to an integer, but the string contains non-numeric characters. And mention what will happen**

1. **Write C# program that Perform a simple arithmetic operation with floating-point numbers And mention what will happen**

1. **Write C# program that Extract a substring from a given string.**

1. **Write C# program that Assigning one value type variable to another and modifying the value of one variable and mention what will happen**

1. **Write C# program that Assigning one reference type variable to another and modifying the object through one variable and mention what will happen**
2. **Write C# program that take two string variables and print them as one variable**
3. **Write a program that calculates the simple interest given the principal amount, rate of interest, and time. The formula for simple interest is**

**Interest = (principal \* rate \* time ) /100.**

1. **Write a program that calculates the Body Mass Index (BMI) given a person's weight in kilograms and height in meters. The formula for BMI is**

**BMI = (Weight)/(Height\*Height)**

1. **Write a program that uses the ternary operator to check if the temperature is too hot, too cold, or just good. Assign the result in a variable then display the result. Assume that below 10 degrees is "Just Cold", above 30 degrees is "Just Hot", and anything else is "Just Good".**
2. **Write a program that takes the date from the user and displays it in various formats using string interpolation.**

**Ex :**

**Today’s date : 20 , 11 , 2001**

**Today's date : 20 / 11 / 2001**

**Today's date : 20 – 11 – 2001**

1. **What is the output of the following C# code?**

DateTime date = new DateTime(2024, 6, 14); Console.WriteLine($"The event is on {date:MM/dd/yyyy}");

1. The event is on 14/06/2024
2. The event is on 2024-06-14
3. The event is on 06/14/2024
4. The event is on June 14, 2024
5. **Which of the following statements is correct about the C#.NET code snippet given below?**

int d;

d = Convert.ToInt32( !(30 < 20) );

1. A value 0 will be assigned to d.
2. A value 1 will be assigned to d.
3. A value -1 will be assigned to d.
4. The code reports an error.
5. The code snippet will work correctly if ! is replaced by Not.

1. **Which of the following is the correct output for the C# code given below?**

Console.WriteLine(13 / 2 + " " + 13 % 2);

1. 6.5 1
2. 6.5 0
3. 6 0
4. 6 1
5. 6.5 6.5

**15-What will be the output of the C# code given below?**

int num = 1, z = 5;

if (!(num <= 0))

Console.WriteLine( ++num + z++ + " " + ++z );

else

Console.WriteLine( --num + z-- + " " + --z );

1. 5 6
2. 6 5
3. 6 6
4. 7 7