

Assignment 2

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

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

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

- 4- Write C# program that Extract a substring from a given string. (Search)

- 5- Write C# program that take two string variables and print them as one variable
- 6- Write a program that calculates the simple interest given the principal amount, rate of interest, and time. The formula for simple interest is
$$\text{Interest} = (\text{principal} * \text{rate} * \text{time}) / 100.$$
- 7- 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
$$\text{BMI} = (\text{Weight}) / (\text{Height} * \text{Height})$$

8- Write a program that takes the date from the user and displays it in various formats using string interpolation. (Search)

Ex :

Today's date : 20 , 11 , 2001

Today's date : 20 / 11 / 2001

Today's date : 20 - 11 - 2001

9- What is the output of the following C# code? (Search)

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

- a) The event is on 14/06/2024
- b) The event is on 2024-06-14
- c) The event is on 06/14/2024
- d) The event is on June 14, 2024

10- Which of the following statements is correct about the C#.NET code snippet given below?

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

- e) A value 0 will be assigned to d.
- f) A value 1 will be assigned to d.
- g) A value -1 will be assigned to d.
- h) The code reports an error.
- i) The code snippet will work correctly if ! is replaced by Not.

11- Which of the following is the correct output for the C# code given below?

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

- a) 6.5 1
 - b) 6.5 0
 - c) 6 0
 - d) 6 1
 - e) 6.5 6.5
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