Assignment Tasks

Q1. Variable Declaration

Declare the following variables with appropriate data types and assign initial values:

- Student name
- Student age
- Student grade (e.g., 8.5 out of 10)
- Whether the student is passed (true/false)
- Student gender (single character, e.g., 'M' or 'F')

Q2. Type Conversion

- Declare an `int` variable `marks = 95`.
- Convert `marks` to a `double` and store in `percentage`.
- Print both values to the console.

Q3. Arithmetic Operations

Write a program to:

- Take two `int` variables, `a = 15` and `b = 4`.
- Calculate:
  - Sum
  - Difference
  - Product
  - Quotient
  - Remainder
- Display the results clearly.

Q4. String Manipulation

Create a string variable storing a sentence:

"I am learning .NET programming"

- Print the length of the string
- Convert it to uppercase

- Replace `.NET` with `C#`
- Print the modified string

Q5. Practical Program

Write a simple C# console application that:

1. Asks the user to enter their name, age, and marks.
2. Stores the values in appropriate variables.
3. Displays a summary in the following format:

Hello [Name], you are [Age] years old and scored [Marks] marks.

Submission Guidelines:

☐ Complete the assignment in Visual Studio or any C# IDE
☐ Test and debug your code
☐ Submit the source code files
☐ Submit a screenshot or PDF of the output