Rapid Application Development

Objective:

This practical is designed for you to have an Introductory session on Visual Studio and understand the basic programming Concepts such as **Data types, variables, conditionals, arrays, loops and functions.**

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1. Write a C# Sharp program to accept two integers and check whether they are equal or not.

2. Write a program in C# Sharp to read 10 numbers from the keyboard and find their sum and average.

3. Write a program in C# Sharp to print the following pyramid pattern.

    Hint : When a user enters 5 the output should contain 5 rows as follows,

    ```
    Enter no of Rows:5
    *
    * *
    * * *
    * * * *
    * * * * *
    ```

4. Modify above program to get the following output.

    ```
    Enter no of Rows:5
    # # # # #
    # # # #
    # # #
    # #
    #
    ```

5. Modify above program to get the following output also.

    ```
    Enter no of Rows:5
            *
          * * *
        * * * * *
      * * * * * * *
    * * * * * * * * *
    ```

6. Write a program to count how many numbers between 1 and 100 are divisible by 3 with no remainder. Display the result on the console.

7. Write a program that takes a single argument from the console, computes the factorial, and prints the value on the console.
   Example: if the user enters 5, the program should calculate 5 x 4 x 3 x 2 x 1 and display it as 5! = 120.

8. Write a C# program that implements a function to check if a string is a palindrome or not.