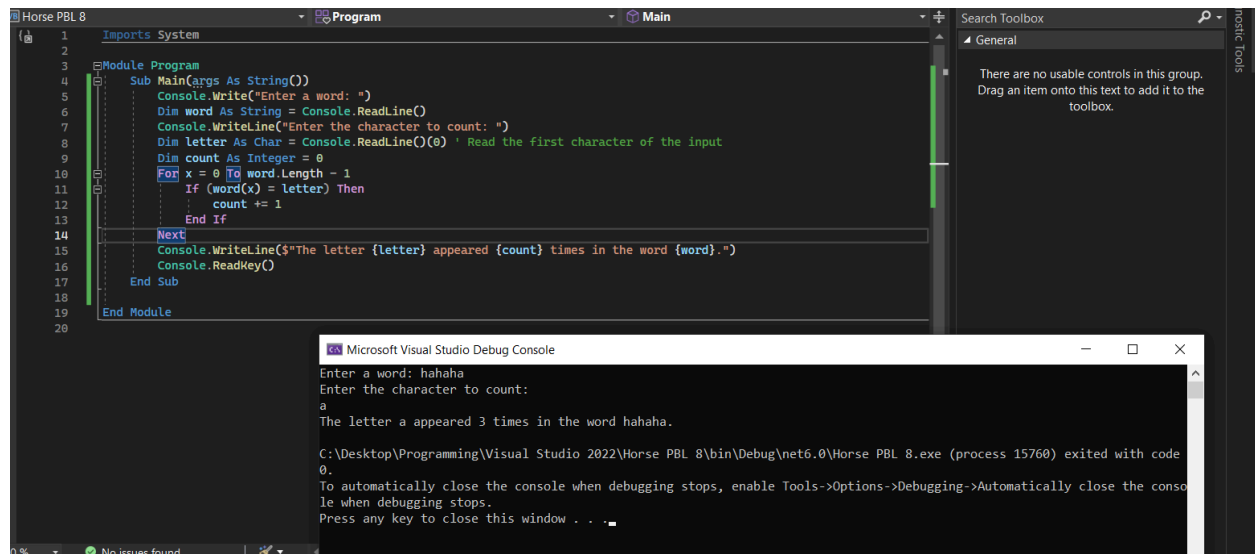# Topic : String manipulation

1. Write a program that will ask the user to enter a string(word) and the program will output the number of a specific letter that was found in that string(word).

   E.g. the user inputs BANANA and the letter being counted is A, then the output will be 3

```vb
Imports System

Module Program
    Sub Main(args As String())
        Console.Write("Enter a word: ")
        Dim word As String = Console.ReadLine()
        Console.WriteLine("Enter the character to count: ")
        Dim letter As Char = Console.ReadLine()(0) ' Read the first character of the input
        Dim count As Integer = 0
        For x = 0 To word.Length - 1
            If (word(x) = letter) Then
                count += 1
            End If
        Next
        Console.WriteLine($"The letter {letter} appeared {count} times in the word {word}.")
        Console.ReadKey()
    End Sub
End Module
```
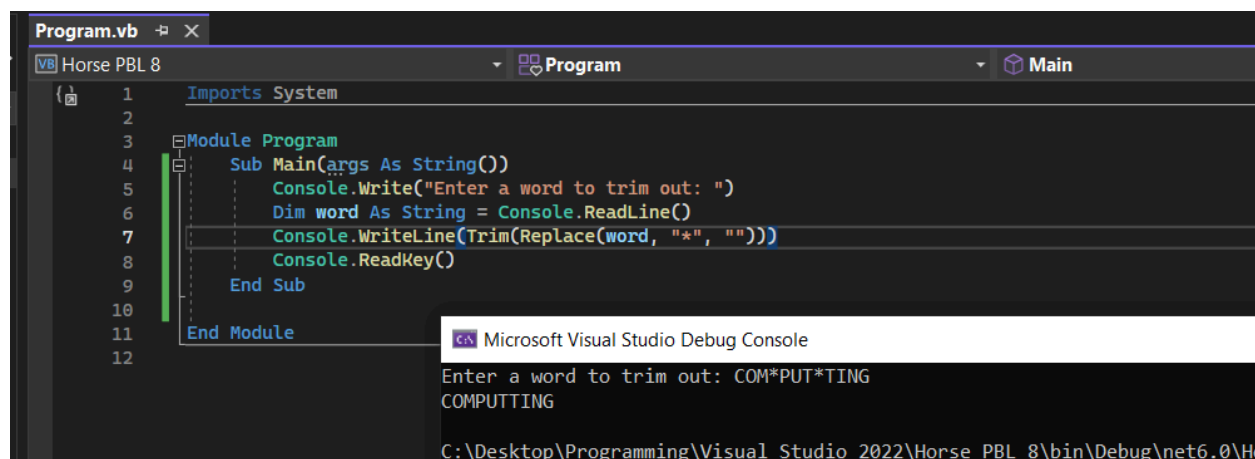
Microsoft Visual Studio Debug Console
```
Enter a word: hahaha
Enter the character to count:
a
The letter a appeared 3 times in the word hahaha.

C:\Desktop\Programming\Visual Studio 2022\Horse PBL 8\bin\Debug\net6.0\Horse PBL 8.exe (process 15760) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

2. Write a program that will accept a string and outputs the string after checking and removing any * symbol in the string.

   E.g. If the string input is COM*PU*TING then it should be output as COMPUTING.
         If the input is HARDWARE then the output is HARDWARE.

```vb
Imports System

Module Program
    Sub Main(args As String())
        Console.Write("Enter a word to trim out: ")
        Dim word As String = Console.ReadLine()
        Console.WriteLine(Trim(Replace(word, "*", "")))
        Console.ReadKey()
    End Sub
End Module
```

Microsoft Visual Studio Debug Console
```
Enter a word to trim out: COM*PUT*TING
COMPUTTING

C:\Desktop\Programming\Visual Studio 2022\Horse PBL 8\bin\Debug\net6.0\H
```

3. Write a program that will convert the uppercase in a string to lowercase and the lowercase in the string to uppercase.

Example :   "The Cat Jumped Over The Frog"

is converted to

tHE cAT jUMPED oVER tHE fROG