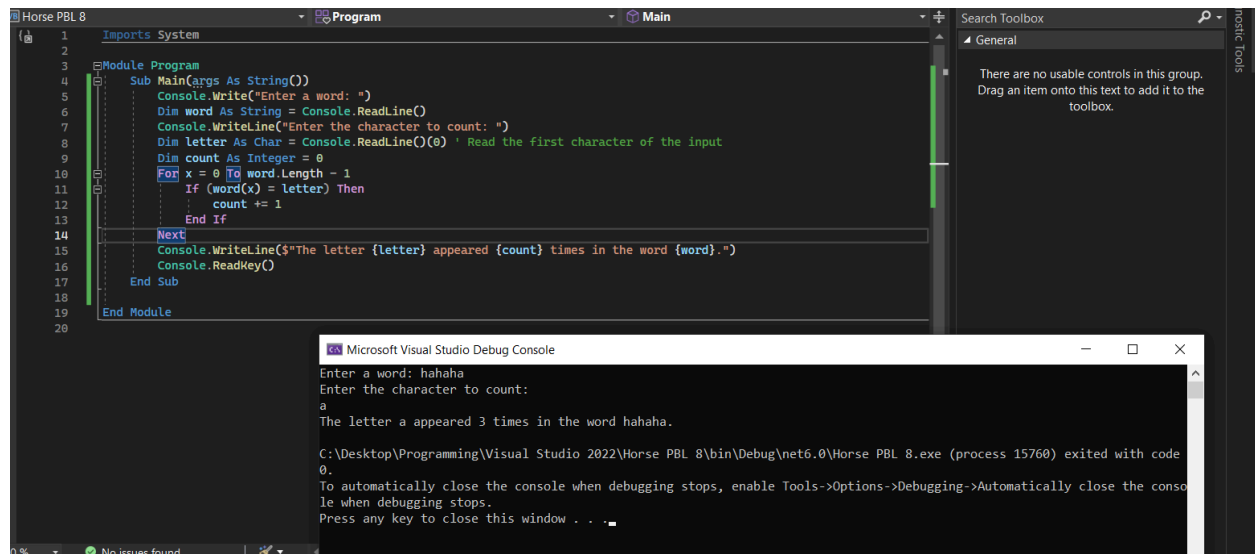


Topic : String manipulation

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



```
1 Imports System
2
3 Module Program
4     Sub Main(args As String())
5         Console.WriteLine("Enter a word: ")
6         Dim word As String = Console.ReadLine()
7         Console.WriteLine("Enter the character to count: ")
8         Dim letter As Char = Console.ReadLine().Char ' Read the first character of the input
9         Dim count As Integer = 0
10        For x = 0 To word.Length - 1
11            If (word(x) = letter) Then
12                count += 1
13            End If
14        Next
15        Console.WriteLine($"The letter {letter} appeared {count} times in the word {word}.")
16        Console.ReadKey()
17    End Sub
18 End Module
19
20
```

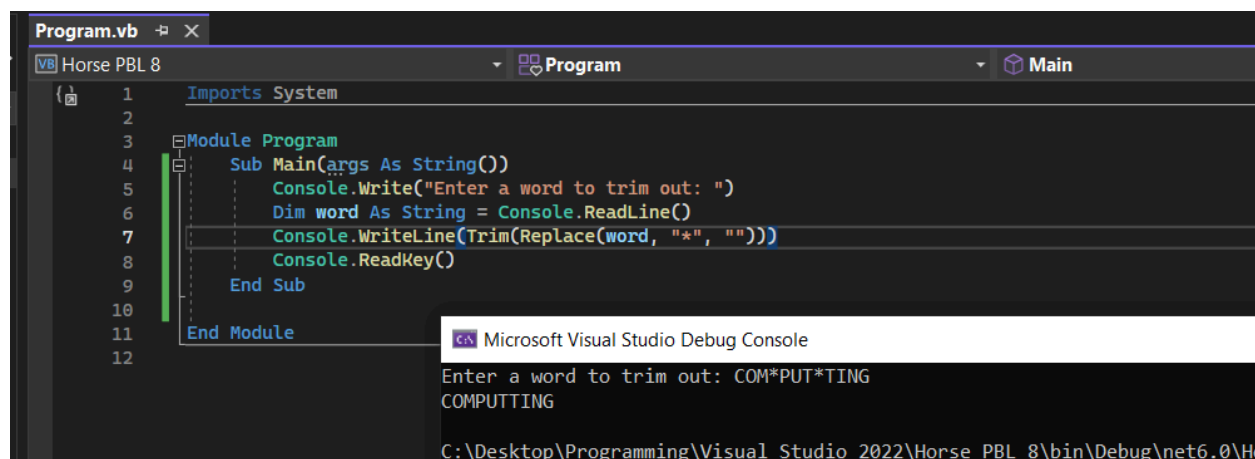
Microsoft Visual Studio Debug Console

```
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.



```
1 Imports System
2
3 Module Program
4     Sub Main(args As String())
5         Console.WriteLine("Enter a word to trim out: ")
6         Dim word As String = Console.ReadLine()
7         Console.WriteLine(Trim(Replace(word, "*", "")))
8         Console.ReadKey()
9     End Sub
10 End Module
11
12
```

Microsoft Visual Studio Debug Console

```
Enter a word to trim out: COM*PUT*TING
COMPUTING

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 . . .
```

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

```
1 Imports System
2 Imports System.Diagnostics.Tracing
3
4 Module Program
5     Sub Main(args As String())
6         Console.WriteLine("Enter the word to change case: ")
7         Dim word As String = Console.ReadLine()
8         Dim out As String = ""
9         For x = 0 To Len(word) - 1
10            Dim index As Char = word(x)
11            If (Char.IsUpper(index)) Then
12                index = LCase(index)
13                out += index
14            ElseIf (Char.IsLower(index)) Then
15                index = UCase(index)
16                out += index
17            Else
18                out += " "
19            End If
20        Next
21
22        Console.WriteLine(out)
23        Console.ReadKey()
24    End Sub
25 End Module
26
```

Microsoft Visual Studio Debug Console

Enter the word to change case: hElLo WoRld
HeLlO wOrld

C:\Desktop\Programming\Visual Studio 2022\ConsoleApp2\bin\Debug\net6.0\ConsoleApp2.exe (pro
0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->
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