



International University of Business Agriculture and Technology

Lab Report 02

Name : Abdullah Md Jahid Hassan.

Student ID: 20203020

Course : CSC 440

Section : A

Semester : Fall 2022

Sl no :

Mobile no : +8801756254873

E-mail : hassan20203020@gmail.com



Submitted to

Rashedul Islam

Senior lecturer

Date: 21-09-2022

01

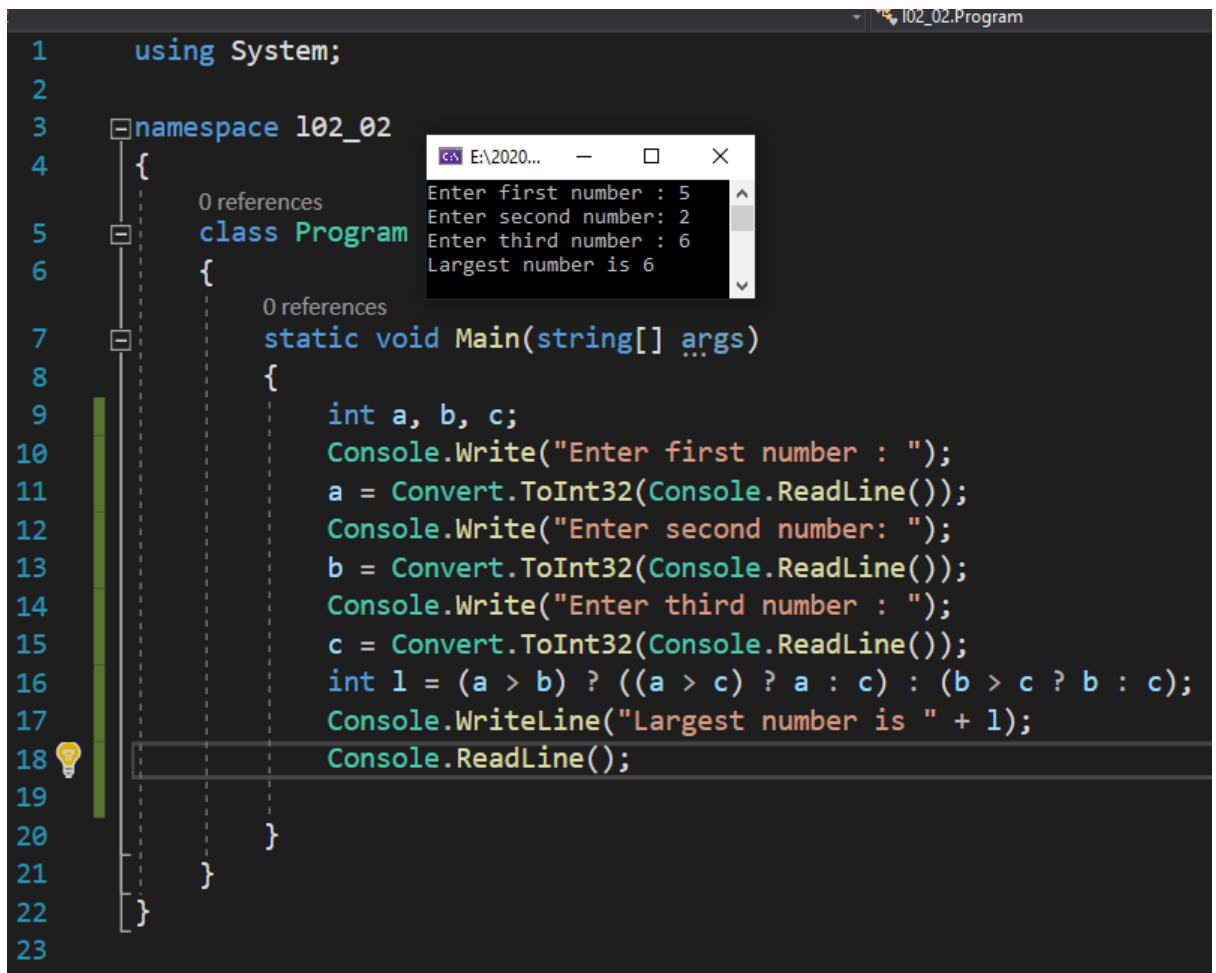
```
1  using System;
2
3  namespace l02_01
4  {
5      class Program
6      {
7          static void Main(string[] args)
8          {
9              Console.Write("Enter a character : ");
10             char ch = Console.ReadLine()[0];
11             if ((ch >= 'A' && ch <= 'Z') || (ch >= 'a' && ch <= 'z')){
12                 if (ch=='A' || ch=='a' || ch=='E' || ch=='e' || ch=='I' ||
13                     ch=='i' || ch=='O' || ch=='o' || ch=='U' || ch=='u'){
14                     Console.WriteLine(ch+" is a vowel");
15                 }
16                 else
17                 {
18                     Console.WriteLine(ch + " is a consonant");
19                 }
20             }
21             else Console.WriteLine(ch + " is not a valid alphabet");
22         }
23     }
24 }
25
```

Microsoft Visual Studio Debug ...

Enter a character : u
u is a vowel

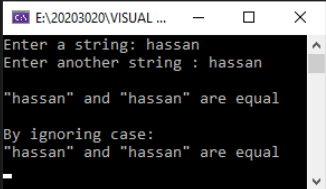
02

```
1  using System;
2
3  namespace 102_02
4  {
5      0 references
6      class Program
7      {
8          0 references
9          static void Main(string[] args)
10         {
11             int a, b, c;
12             Console.Write("Enter first number : ");
13             a = Convert.ToInt32(Console.ReadLine());
14             Console.Write("Enter second number: ");
15             b = Convert.ToInt32(Console.ReadLine());
16             Console.Write("Enter third number : ");
17             c = Convert.ToInt32(Console.ReadLine());
18             int l = (a > b) ? ((a > c) ? a : c) : (b > c ? b : c);
19             Console.WriteLine("Largest number is " + l);
20             Console.ReadLine();
21         }
22     }
23 }
```



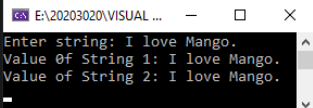
03

```
1 using System;
2
3 namespace l02_03
4 {
5     class Program
6     {
7         static void Main(string[] args)
8         {
9             string str1, str2;
10            Console.Write("Enter a string: ");
11            str1 = Console.ReadLine();
12            Console.Write("Enter another string : ");
13            str2 = Console.ReadLine();
14            if (str1 == str2)
15                Console.WriteLine("\n\" + str1 + "\" and \" + str2 + "\" are equal");
16            else
17                Console.WriteLine("\n\" + str1 + "\" and \" + str2 + "\" are not equal");
18
19            Console.WriteLine("\nBy ignoring case:");
20            if(str1.ToUpper() == str2.ToUpper())
21                Console.WriteLine("\" + str1 + "\" and \" + str2 + "\" are equal");
22            else
23                Console.WriteLine("\" + str1 + "\" and \" + str2 + "\" are not equal");
24            Console.ReadLine();
25        }
26    }
27 }
28
```



4.1

```
1 using System;
2
3 namespace l02_4_1
4 {
5     class Program
6     {
7         static void Main(string[] args)
8         {
9             String str1, str2;
10            Console.Write("Enter string: ");
11            str1 = Console.ReadLine();
12            str2 = String.Copy(str1);
13            Console.WriteLine("Value of String 1: " + str1 + "\nValue of String 2: " + str2);
14            Console.ReadLine();
15        }
16    }
17 }
```



4.2

```
1 using System;
2
3 namespace l02_04_02
4 {
5     class Program
6     {
7         static void Main(string[] args)
8         {
9             String str1 = "  Abdullah Md Jahid Hassan.  ";
10            String str2;
11            str2 = str1.TrimStart();
12            Console.WriteLine("Trimmed string is:(" + str2 + ")");
13            Console.ReadLine();
14        }
15    }
16 }
```

0 references

0 references

E:\20203020\VISUAL PROGRAMMING LAB 02\l02_04-02\l02_04-02\bin... Trimmed string is:(Abdullah Md Jahid Hassan.)

4.3

```
1 using System;
2
3 namespace l02_04_03
4 {
5     class Program
6     {
7         static void Main(string[] args)
8         {
9             String str1 = "I'm Thinking.";
10            String str2;
11            str2 = str1.PadRight(20, '*');
12            Console.WriteLine( "String after right padd ing :(" + str2 + ") " );
13            Console.ReadLine();
14        }
15    }
16 }
```

0 references

0 references

E:\20203020\VISUAL PROGRAMMING LAB 02\l02_04-03\l02_04-03\bin\Debug\netcor... String after right padd ing :(I'm Thinking.*****)

4.4

```
1  using System;
2
3  namespace 102_04_04
4  {
5      class Program
6      {
7          static void Main(string[] args)
8          {
9              String str1;
10             bool flag = false;
11             Console.Write("Enter String: ");
12             str1 = Console.ReadLine();
13             flag = str1.EndsWith("india");
14             if (flag == true)
15                 Console.WriteLine("String ends with india");
16             else
17                 Console.WriteLine("String does not end with india");
18             Console.ReadLine();
19         }
20     }
21 }
```

0 references

Enter String: I don't like india
String ends with india

4.5

```
1  using System;
2
3  namespace 102_04_05
4  {
5      class Program
6      {
7          static void Main(string[] args)
8          {
9              String str1; String str2;
10             Console.Write("Enter String: ");
11             str1 = Console.ReadLine();
12             str2 = str1.Replace('a', 'r');
13             Console.WriteLine("String after replace method: " + str2);
14             Console.ReadLine();
15         }
16     }
17 }
```

0 references

Enter String: Abdullah Md Jahid Hassan.
String after replace method: Abdullrh Md Jrhid Hrssrn.

4.6

```
1 String s, w;
2 int c=0;
3 Console.Write("Enter the String: ");
4 s = Console.ReadLine();
5 Console.Write("Enter the Word to search: ");
6 w = Console.ReadLine();
7 for (int i=0; i!=w.Length-1; c++) i = s.IndexOf(w, i)+w.Length;
8 Console.WriteLine("The Word \""+w+"\" occurs "+(c-1)+" times in text \""+s+"\".");
```

Select Microsoft Visual Studio Debug Console

Enter the String: Ha Ha He He Ha...
Enter the Word to search: Ha
The Word "Ha" occurs 3 times in text "Ha Ha He He Ha..."

4.7

```
1 using System.Text.RegularExpressions;
2
3 string[] numbers;
4 Console.Write("Enter the String: ");
5 string str = Console.ReadLine();
6 numbers = Regex.Split(str, @"\D+");
7 Console.WriteLine("Numbers in given string:");
8 foreach (string num in numbers) Console.WriteLine(num);
9
```

Select Microsoft Visual Studio Debug Console

Enter the String: Be no 01 not 02, 03 is not good.
Numbers in given string:

01
02
03

4.8

```
1 using System.Diagnostics.Metrics;
2
3 string str;
4 Console.Write("Enter the String: ");
5 str = Console.ReadLine();
6 Console.WriteLine("Possible sub-strings are :");
7 for (int i = 1; i <= str.Length; i++)
8     for (int j = 0; j <= str.Length-i; j++)
9         Console.WriteLine(str.Substring(j, i));
10
```

Enter the String: Jahid
Possible sub-strings are :

J
a
h
i
d
Ja
ah
hi
id
Jah
ahi
hid
Jahi
ahid
Jahid

4.9

```
1 string str = "Abdullah\nMd\nJahid\nHassan.";
2 int lines=1, index=0;
3 Console.WriteLine("Lines :");
4 Console.WriteLine(str);
5 while (true)
6 {
7     index = str.IndexOf('\n', index);
8     if (index < 0) break;
9     lines++;
10    index++;
11 }
12 Console.WriteLine("Total lines in a string: "+lines);
13
```

Select Microsoft Visual Studio Debug...

Lines :
Abdullah
Md
Jahid
Hassan.
Total lines in a string: 4