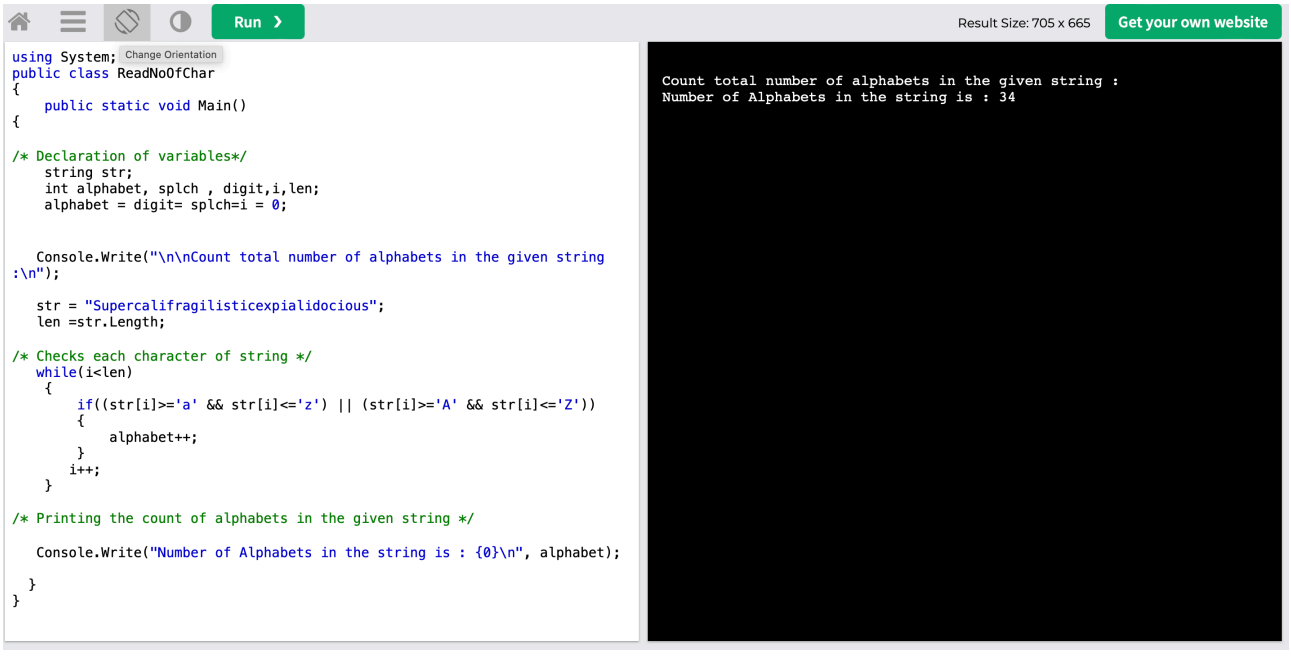
Q2) I)

Solution :

```
using System;
public class ReadNoOfChar
{
    public static void Main()
{

/* Declaration of variables*/
    string str;
    int alphabet, splch , digit,i,len;
    alphabet = digit= splch=i = 0;


   Console.Write("\n\nCount total number of alphabets in the given string      :\n");

   str = "Supercalifragilisticexpialidocious";
   len =str.Length;

/* Checks each character of string */
   while(i<len)
    {
       if((str[i]>='a' && str[i]<='z') || (str[i]>='A' && str[i]<='Z'))
       {
          alphabet++;
       }
      i++;
    }

/* Printing the count of alphabets in the given string */

   Console.Write("Number of Alphabets in the string is : {0}\n", alphabet);

  }
```

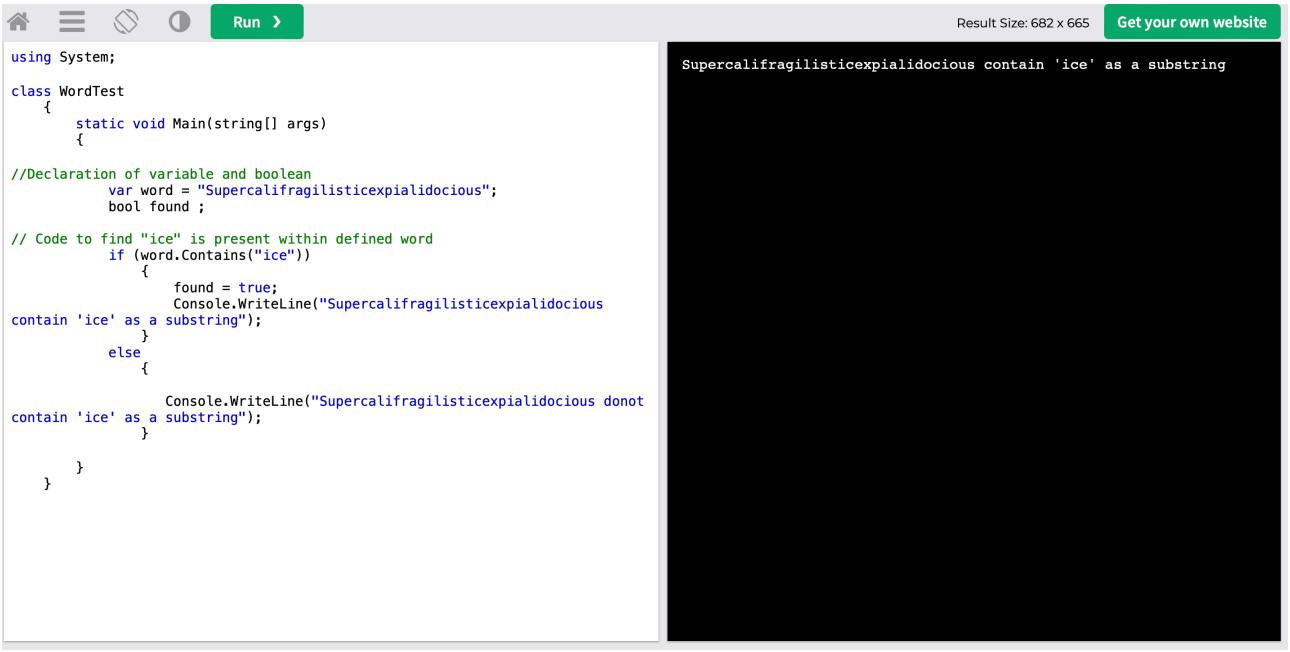


Q2)ii)

Code :

```
using System;

class WordTest
   {
      static void Main(string[] args)
      {

//Declaration of variable and boolean
         var word = "Supercalifragilisticexpialidocious";
                  bool found ;

// Code to find "ice" is present within defined word
                  if (word.Contains("ice"))
                        {
                        found = true;
               Console.WriteLine("Supercalifragilisticexpialidocious
contain 'ice' as a substring");
                        }
         else
              {

               Console.WriteLine("Supercalifragilisticexpialidocious donot
contain 'ice' as a substring");
             }

      }
   }
```

O/p:



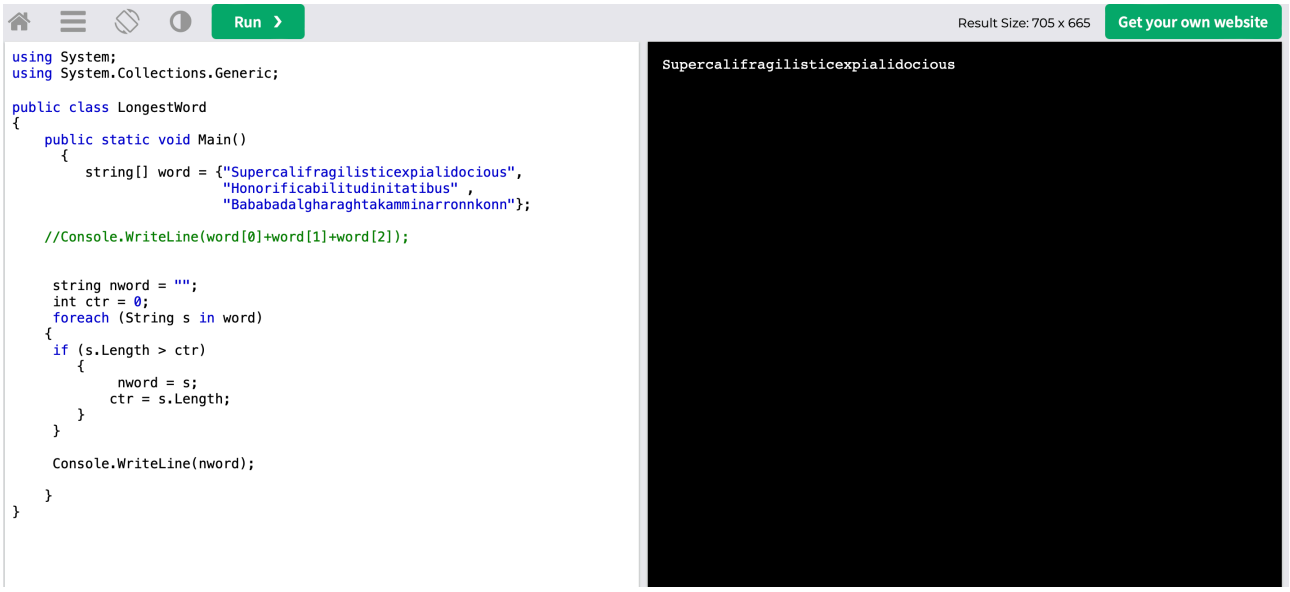
Q2) iii)

Code :

```
using System;
using System.Collections.Generic;

public class LongestWord
{
   public static void Main()
    {
       string[] word = {"Supercalifragilisticexpialidocious", "
Honorificabilitudinitatibus" , "
Bababadalgharaghtakamminarronnkonn" };

       //Console.WriteLine(word[0]+word[1]+word[2]);


    string nword = "";
    int ctr = 0;
    foreach (String s in word)
   {
```

```
    if (s.Length > ctr)
      {
                    nword = s;
                   ctr = s.Length;
            }
       }

        Console.WriteLine(nword);

   }
}
```

O/P:



Q3)

```
using System;


   public class Program
   {
      public static void Main(string[] args)
      {
//declare variables
          double s, area;
          double a, b, c;

          Console.WriteLine("Enter 1st side of triangle : ");
          a = double.Parse(Console.ReadLine());
          Console.WriteLine("Enter 2nd side of triangle : ");
          b = double.Parse(Console.ReadLine());
          Console.WriteLine("Enter 3rd side of triangle : ");
          c = double.Parse(Console.ReadLine());

          s = (a + b + c) / 2;
          area = Math.Sqrt(s * ( s - a) * (s - b) * (s - c));

          Console.WriteLine("Area of a triangle is {0}  " , area);
      }

}
```

```
using System;


   public class Program
   {
      public static void Main(string[] args)
      {
//declare variables
          double s, area;
          double a, b, c;

          Console.WriteLine("Enter 1st side of triangle : ");
          a = double.Parse(Console.ReadLine());
          Console.WriteLine("Enter 2nd side of triangle : ");
          b = double.Parse(Console.ReadLine());
          Console.WriteLine("Enter 3rd side of triangle : ");
          c = double.Parse(Console.ReadLine());

          s = (a + b + c) / 2;
          area = Math.Sqrt(s * ( s - a) * (s - b) * (s - c));

          Console.WriteLine("Area of a triangle is {0}  " , area);
      }

}
```

```
Enter 1st side of triangle :
5
Enter 2nd side of triangle :
5
Enter 3rd side of triangle :
5
Area of a triangle is 10.8253175473055
```

Last Run: 12:45:05 am
Compile: 0.203s
Execute: 0s
Memory: 8kb
CPU: 0.016s