

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

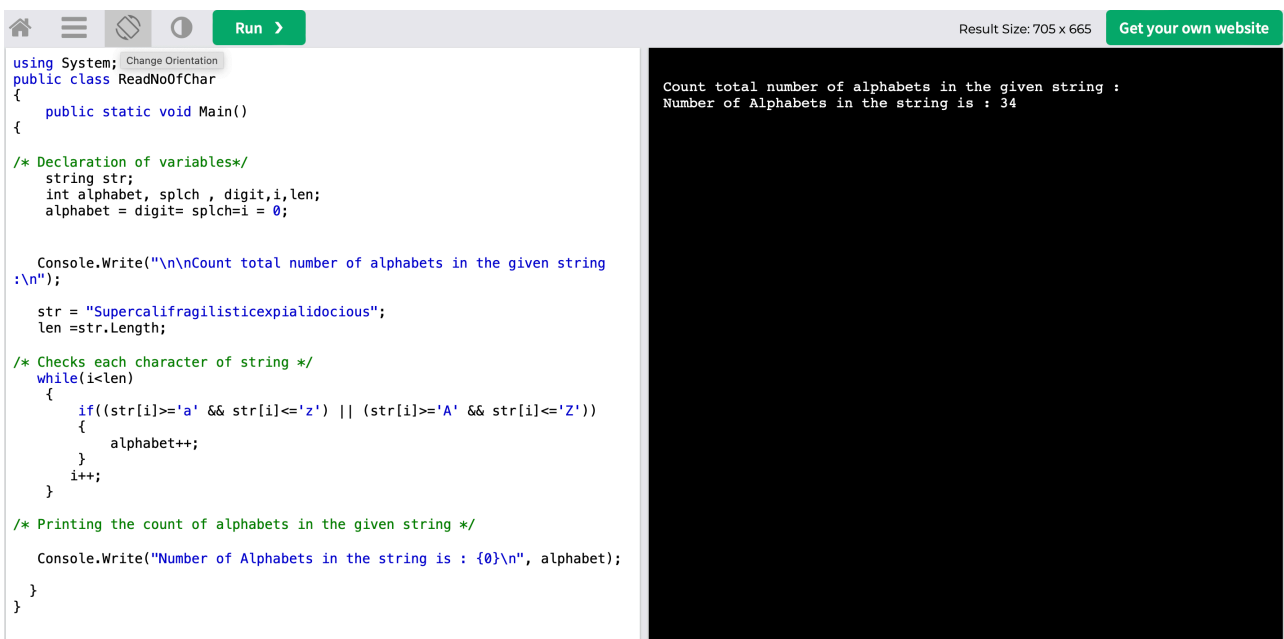
```
        str = "Supercalifragilisticexpialidocious";
        len =str.Length;
```

```
/* 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.WriteLine("Number of Alphabets in the string is : {0}\n", alphabet);
```

```
    }
```



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

Count total number of alphabets in the given string :
Number of Alphabets in the string is : 34

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
```

```
    {
```

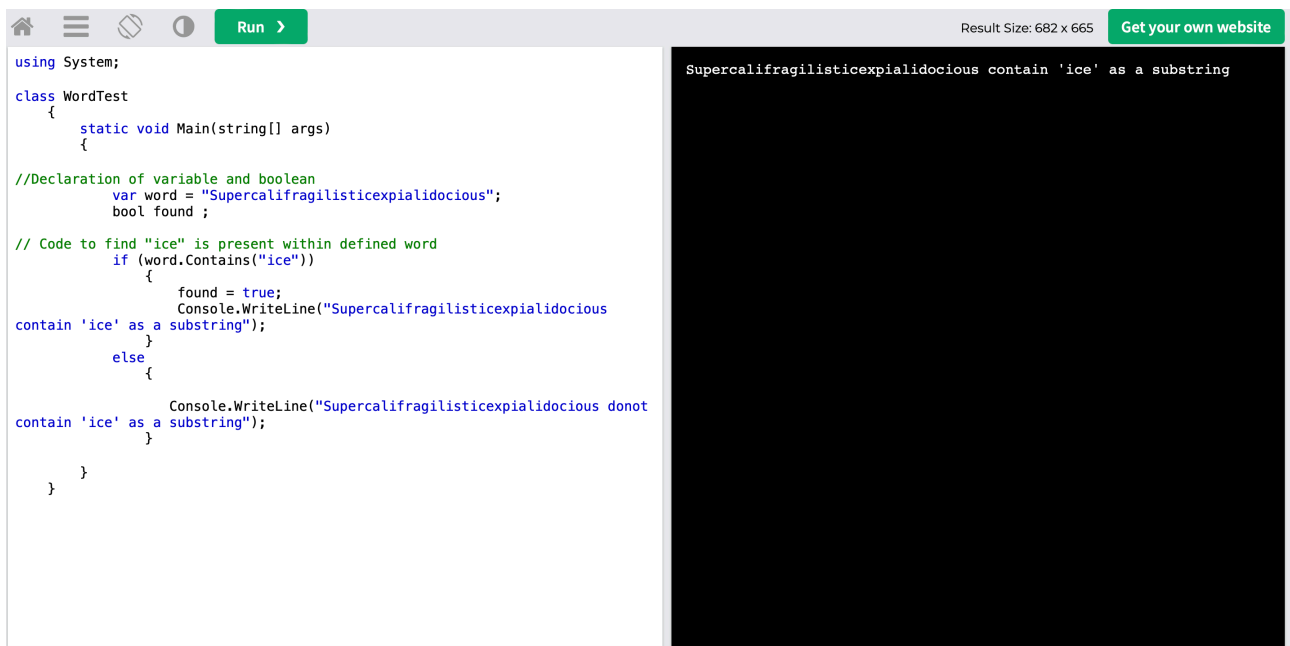
```
        Console.WriteLine("Supercalifragilisticexpialidocious donot  
contain 'ice' as a substring");
```

```
    }
```

```
    }
```

```
}
```

O/p:



```
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");
        }
    }
}
```

Supercalifragilisticexpialidocious contain 'ice' as a substring

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:



The screenshot shows a C# program in an IDE. The code defines a class `LongestWord` with a `Main` method. It initializes an array of words: `Supercalifragilisticexpialidocious`, `Honorificabilitudinitatibus`, and `Bababadalgharaghtakamminarronkonn`. It then iterates through these words, finding the longest one and printing it to the console. The output window on the right shows the result: `Supercalifragilisticexpialidocious`.

```

using System;
using System.Collections.Generic;

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

        //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);
    }
}

```

Result Size: 705 x 665

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Supercalifragilisticexpialidocious

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);
    }
}
```

```
1 using System;
2
3
4 public class Program
5 {
6     public static void Main(string[] args)
7     {
8 //declare variables
9         double s, area;
10        double a, b, c;
11
12        Console.WriteLine("Enter 1st side of triangle : ");
13        a = double.Parse(Console.ReadLine());
14        Console.WriteLine("Enter 2nd side of triangle : ");
15        b = double.Parse(Console.ReadLine());
16        Console.WriteLine("Enter 3rd side of triangle : ");
17        c = double.Parse(Console.ReadLine());
18
19        s = (a + b + c) / 2;
20        area = Math.Sqrt(s * (s - a) * (s - b) * (s - c));
21
22        Console.WriteLine("Area of a triangle is {0} ", area);
23    }
24
25 }
```

```
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

