C# .Net Programming Assignment 7

- Create separate visual Studio project for each problem statement separately.
- For Business logic write separate class.
- Use Object Oriented concepts while writing the program.

1.There is one class named as MarvellousString which contains one characteristics as string. And multiple behaviours as

int strlenx()	Calculate length of string without using any inbuilt feature
int CountCapital()	Count capital characters from string
int CountSmall()	Count capital characters from string
int Frequency(char ch)	Count frequency of specific character from string
int CountVowels()	Count vowels from string
int CountSpace()	Count white spaces from string
int SearchFirst(char ch)	Return position of first occurrence of character
int SearchLast(char ch)	Return position of last occurrence of character
boolean CheckPalindrome()	Check whether string is palindrome or not

Note : Don't use any inbuilt function to to solve this function.

```
using System;

class MarvellousString
{
	public string str;

	public MarvellousString(string name)
	{
		str = name;
	}

	public int strlenx()
	{
		int icnt = 0;

		// Logic

		return icnt;
	}

	public int CountCapital()
	{
		int icnt = 0;
```

```
        // Logic

        return icnt;
}

public int CountSmall()
{
        int icnt = 0;

        // Logic

        return icnt;
}

public int Frequency(char ch)
{
        int icnt = 0;

        // Logic

        return icnt;
}

public int CountVowels()
{
        int icnt = 0;

        // Logic

        return icnt;
}

public int CountSpace()
{
        int icnt = 0;

        // Logic

        return icnt;
}

public int SearchFirst(char ch)
{
```

```
            // Logic
        }

        public int SearchLast(char ch)
        {
            // Logic
        }

        public boolean CheckPalindrome()
        {
            // Logic
        }
}

public class Marvellous
{
        public static void Main()
        {
            MarvellousString dobj = new MarvellousString("Marvellous");

            Console.WriteLine(dobj.strlenx());

            Console.WriteLine(dobj.CountCapital());

            Console.WriteLine(dobj.CountSmall());

            Console.WriteLine(dobj.CountVowels());

            Console.WriteLine(dobj.CountSpace());

            Console.WriteLine(dobj.Frequency('l'));

            if(dobj.CheckPalindrome())
            {
                Console.WriteLine("It is Palindrome");
            }
            else
            {
                Console.WriteLine("It is not Palindrome");
            }
        }
}
```