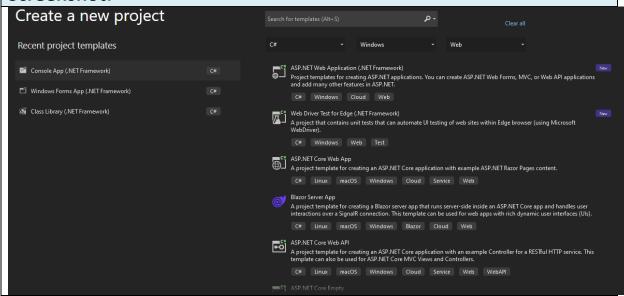
Day21 Assignment By Narala Praveen 21-Feb-2022

Question1:

Update your visual studio with .Net Framework Template add on?

Screenshot:



Question2: Create a web service for mathematical operations. **Example: Factorial** Add Multiplication **Division Screenshot:** → C i localhost:50205/PraveenNaralaservice.a Ø ☆ (F PraveenNaralaservice The following operations are supported. For a formal definition, please review the Service Description Add Division Factorial HelloWorld Multiplication This web service is using http://tempuri.org/ as its default namespace. Recommendation: Change the default namespace before the XML Web service is made public. Each XML Web service needs a unique namespace in order for client applications to distinguish it from other services on the Web. http://tempuri.org/ is available for XML Web services that are under development, but published XI Web services should use a more permanent namespace. Your XML Web service should be identified by a namespace that you control. For example, you can use your company's Internet domain name as part of the namespace. Although many XML Web service namespaces look like URLs they need not point to actual resources on the Web. (XML Web service namespaces are URIs.) For XML Web services creating using ASP.NET, the default namespace can be changed using the WebService attribute's Namespace property. The WebService attribute is an attribute applied to the class that contains the XML Web service methods. Below is a code example that sets the namespace to "http://microsoft.com/webservices/": [WebService(Namespace="http://microsoft.com/webservices/")] public class MyWebService { // implementation <Mebdervice(Namespace:="http://microsoft.com/webservices/")> Public Class MyWebService 'implementation Ind Class [WebService(Namespace="http://microsoft.com/webservices/")] public ref class MyWebService { // implementation (♣ 29°C へ (원 🐿 //6 (៧)) ENG 21:3/ Type here to search O # 0 # 0 O Code: using System; using System.Collections.Generic; using System.Linq; using System.Web; using System.Web.Services; namespace PraveenServices { //Author:Narala Praveen //Purpose:To create a web service /// <summary> /// Summary description for PraveenNaralaservice /// </summary> [WebService(Namespace = "http://tempuri.org/")] [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)] [System.ComponentModel.ToolboxItem(false)] // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line. // [System.Web.Script.Services.ScriptService] public class PraveenNaralaservice : System.Web.Services.WebService [WebMethod] public string HelloWorld()

```
return "Hello World";
        [WebMethod]
        public int Factorial(int n)//Factorial Method
            int fact = 1;
            for (int i = 1; i < n; i++)</pre>
                fact = fact * i;
            return fact;
        }
        [WebMethod]
        public int Add(int a, int b)//Addition method
            return a + b;
        [WebMethod]
        public int Multiplication(int a, int b)//Multiplication method
            return a * b;
        [WebMethod]
        public int Division(int a , int b)//Division Method
        {
            return a/b;
        [WebMethod]
        public int Subtract(int a,int b)//Subtract Method
            return a-b;
        }
   }
}
```

Question 3:

Create a Console Application and consume the Services?

Code:

```
using MyClintApp.ServiceReference1;
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace MyClintApp
{ //Author:Narala Praveem
     //Purpose:To check the Web services methods
     internal class Program
          static void Main(string[] args)
               PraveenNaralaserviceSoapClient pc = new
PraveenNaralaserviceSoapClient();
               Console.WriteLine($"Factorial is{pc.Factorial(4)}");
Console.WriteLine($"Addition is {pc.Add(6,8)}");
Console.WriteLine($"Multiplication is {pc.Multiplication(5,6)}");
               Console.WriteLine($"Division is {pc.Division(8,6)}");
Console.WriteLine($"Subtraction is {pc.Subtract(21,15)}");
               Console.ReadLine();
     }
}
```

Output:

```
C:\NBHtraining\Day21 Assignment\MyClintApp\MyClir
Factorial is24
Addition is 14
Multiplication is 30
Division is 1
Subtraction is 6
```

Question 4:

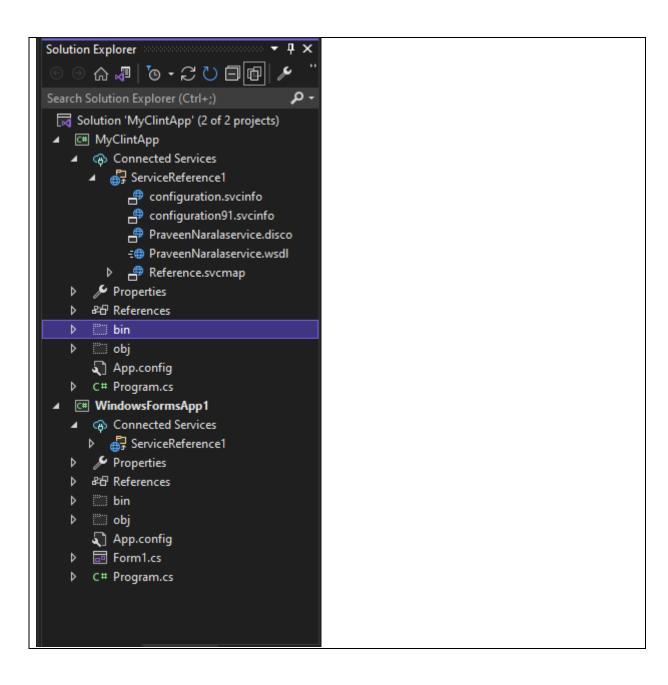
Create a windows Forms application and consumes the web services (for finding factorial of the number)?

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using WindowsFormsApp1.ServiceReference1;
namespace WindowsFormsApp1
   public partial class Form1 : Form
    { //Author:Narala Praveen
        //Purpose: To consume web services in windows app.
        public Form1()
            InitializeComponent();
        private void button1_Click(object sender, EventArgs e)
            int n = Convert.ToInt32(textBox1.Text);
            PraveenNaralaserviceSoapClient pc = new
PraveenNaralaserviceSoapClient();
            textBox2.Text = pc.Factorial(n).ToString();
}
```

Output:

₩ Form1			_	×
	Enter Number	6		
		Factorial		
		720		
				1
Solution Explorer:				



Question 5:

Put the Screen shot of Web service running?

Screen shot:

