Day21 Assignment

By

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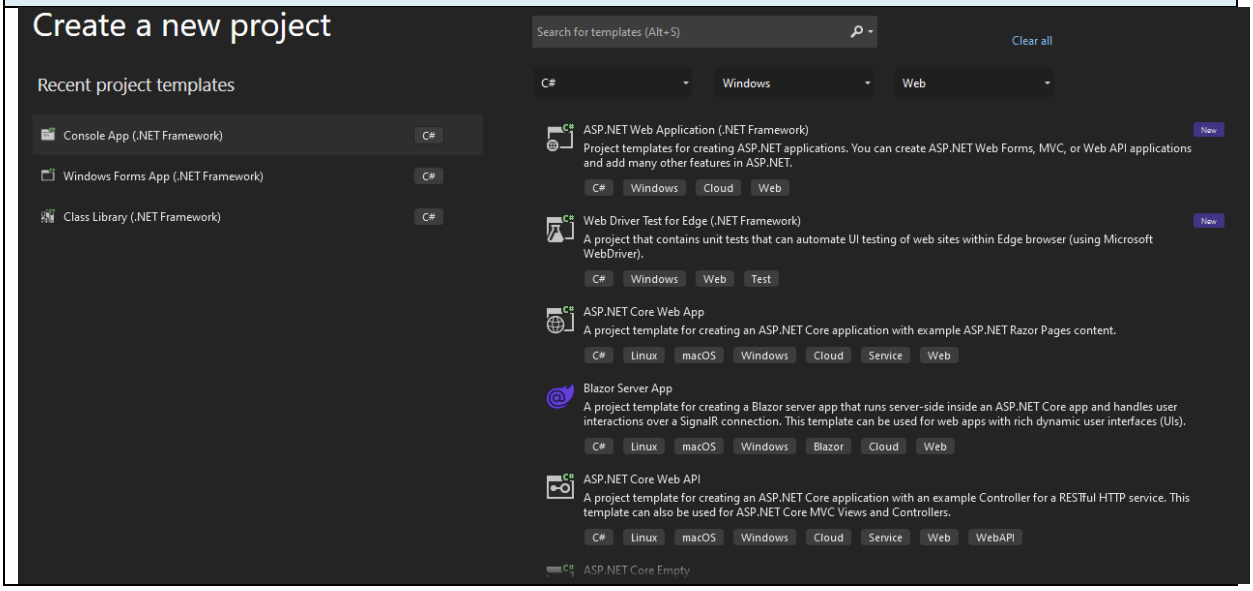
Question1:

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

Screenshot:



Question2:

Create a web service for mathematical operations.

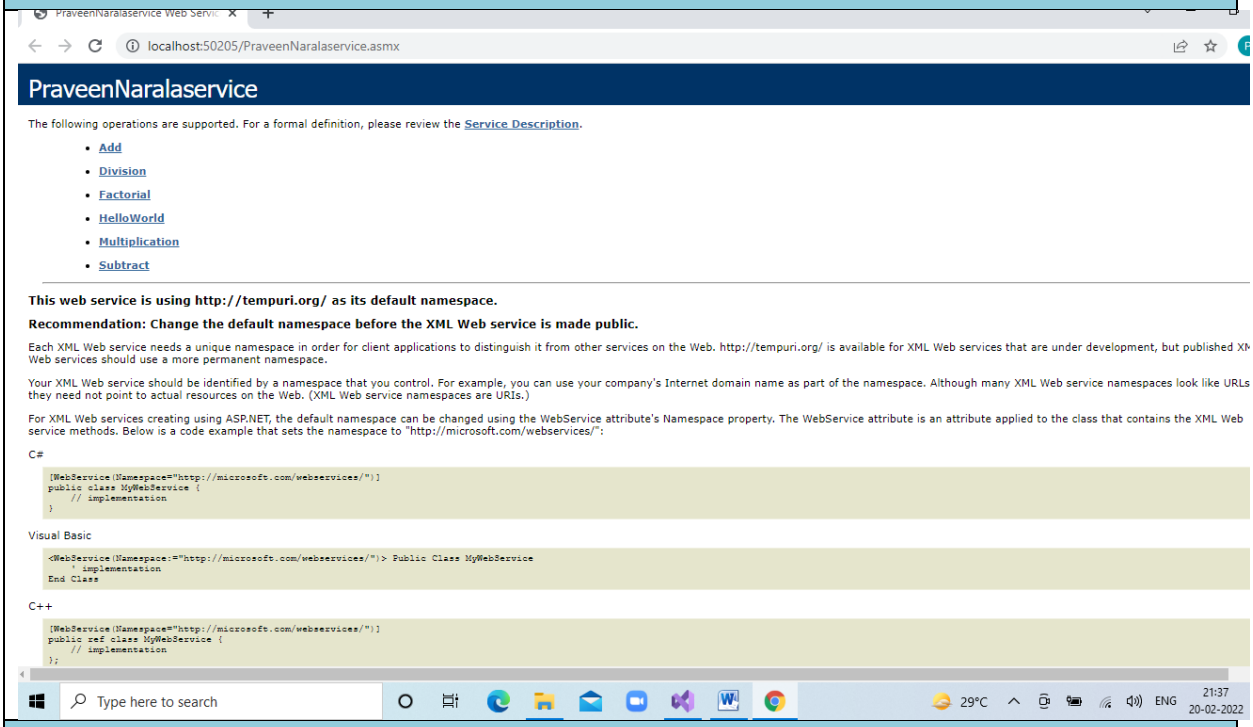
Example :Factorial

Add

Multiplication

Division

Screenshot:



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()
        {
```

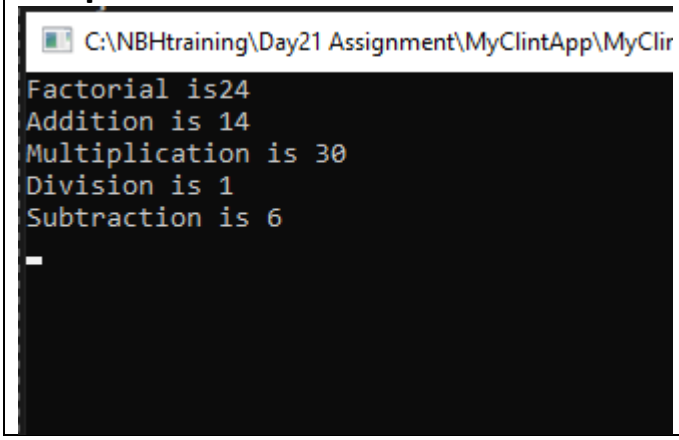
```
            return "Hello World";
        }
        [WebMethod]

        public int Factorial(int n)//Factorial Method
        {
            int fact = 1;
            for (int i = 1; i < n; i++)
                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.Linq;
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:

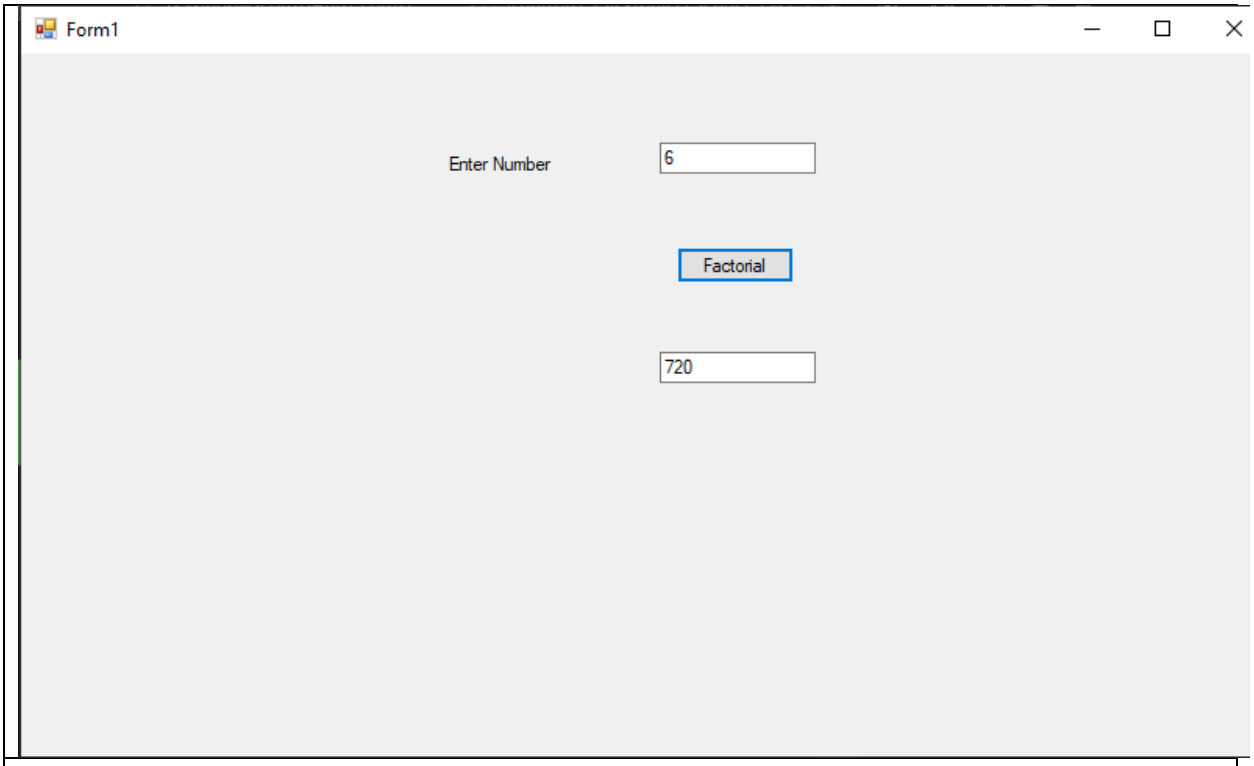


Question 4:
Create a windows Forms application and consumes the web services (for finding factorial of the number)?

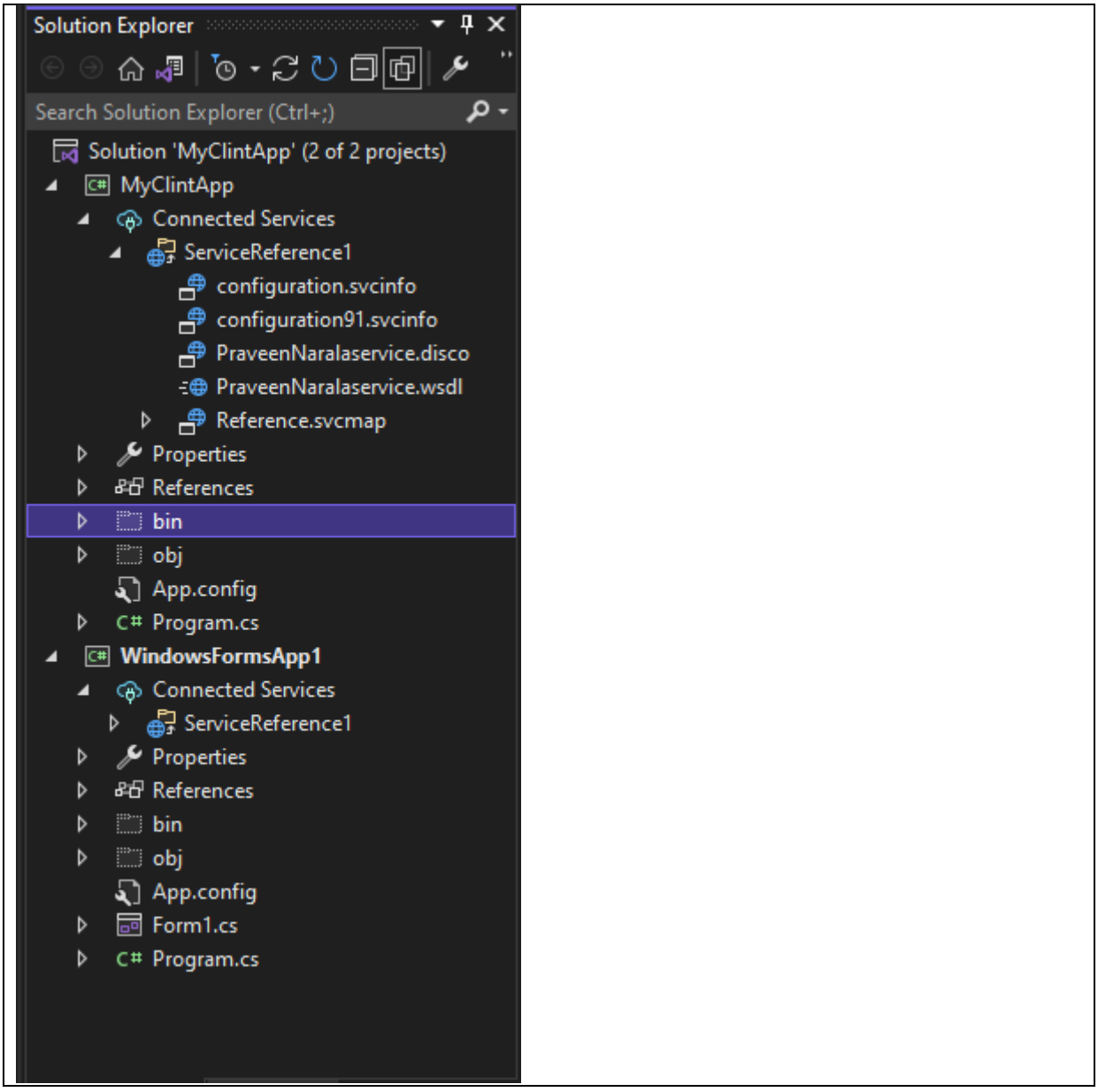
Code:

```
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:



Solution Explorer:


Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'MyClintApp' (2 of 2 projects)
MyClintApp
Connected Services
ServiceReference1
configuration.svcinfo
configuration91.svcinfo
PraveenNaralaservice.disco
PraveenNaralaservice.wsdl
Reference.svcmap
Properties
References
bin
obj
App.config
Program.cs
WindowsFormsApp1
Connected Services
ServiceReference1
Properties
References
bin
obj
App.config
Form1.cs
Program.cs

Question 5:
Put the Screen shot of Web service running?

Screen shot: