

DAY21 ASSIGNMENT
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Q2 Create a web service for Mathematical Operations.

Example : Factorial, add, mul, div

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;

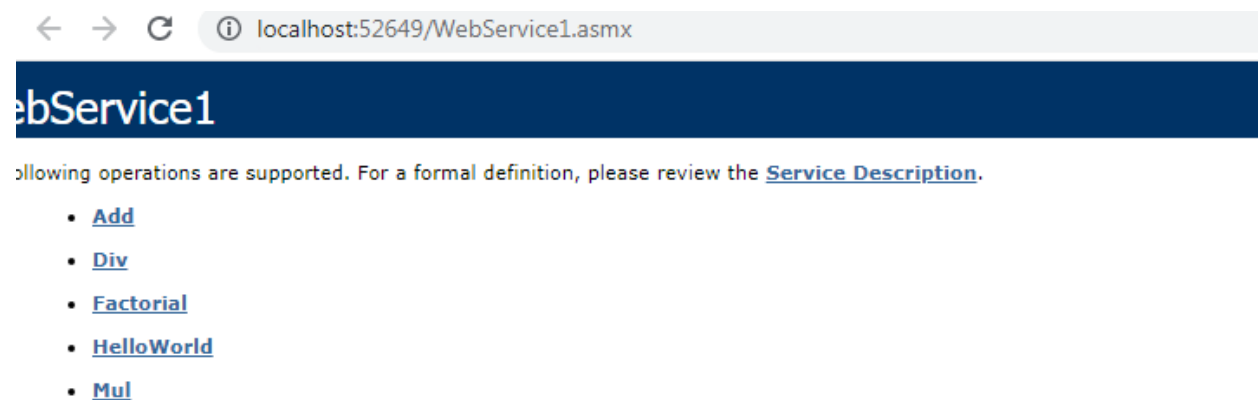
namespace ManoharWebService
{
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line.
    // [System.Web.Script.Services.ScriptService]
    public class WebService1 : System.Web.Services.WebService
    {

        [WebMethod]
        public string HelloWorld()
        {
            return "Hello World";
        }
        [WebMethod]
        public int Factorial(int n)
        {
            int fact = 1;
            for (int i = 1; i <= n; i++)
                fact = fact * i;
            return fact;
        }
        [WebMethod]
        public int Add(int a, int b)
        {
            return a + b;
        }
        [WebMethod]
```

```

        public int Mul(int a, int b)
        {
            return a * b;
        }
        [WebMethod]
        public int Div(int a,int b)
        {
            return a / b;
        }
    }
}

```



← → ↻ ⓘ localhost:52649/WebService1.asmx

WebService1

Following operations are supported. For a formal definition, please review the [Service Description](#).

- [Add](#)
- [Div](#)
- [Factorial](#)
- [HelloWorld](#)
- [Mul](#)

Q3. Create a Console Application and consume the webservice

CODE:

```

using MyClientApp.ServiceReference1;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

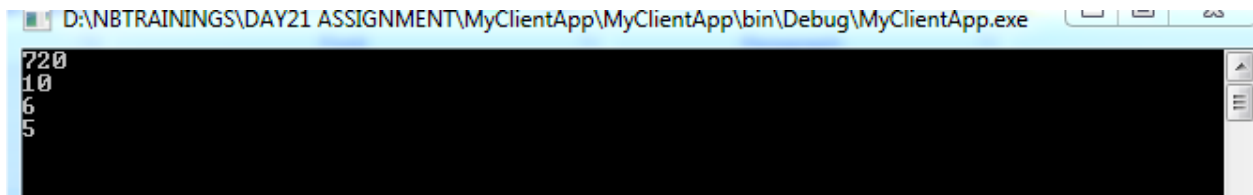
namespace MyClientApp
{
    internal class Program
    {
        static void Main(string[] args)
        {
            WebService1SoapClient obj = new WebService1SoapClient();
            Console.WriteLine(obj.Factorial(6));
            Console.WriteLine(obj.Add(5,5));
            Console.WriteLine(obj.Mul(2,3));
            Console.WriteLine(obj.Div(10,2));

            Console.ReadLine();
        }
    }
}

```

```
}  
}
```

OUTPUT:



```
D:\NBTRAININGS\DAY21 ASSIGNMENT\MyClientApp\MyClientApp\bin\Debug\MyClientApp.exe  
720  
10  
6  
5  
5
```

Q4. Create a Windows Forms application and consume the webservice

[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  
    {  
        public Form1()  
        {  
            InitializeComponent();  
        }  
    }  
}
```

```
private void button1_Click(object sender, EventArgs e)
{
    WebService1SoapClient obj = new WebService1SoapClient();
    int n = Convert.ToInt32(textBox1.Text);
    textBox2.Text = obj.Factorial(n).ToString();
}
}
```

Enter Number

Result

Output:

Q5.Put the screenshots of webservice running

