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| **Day 21 assignment**  **By**  **NAnam Vaishnavi**  **21 – feb – 2022** |

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| **1. Update your Visual Studio with .Net Framework Templates add on (as discussed in the class)** |
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| **2. 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 WebApplication1  {  /// <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 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;  }  }  } |
| **OUTPUT** |
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| **3. Create a Console Application and consume the webservice** |
| **CODE** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using MyClient\_App1.ServiceReference1;  namespace MyClient\_App1  {  internal class Program  {  static void Main(string[] args)  {  WebService1SoapClient ob = new WebService1SoapClient();  Console.WriteLine(ob.Factorial(5));  Console.WriteLine(ob.Add(5,8));  Console.WriteLine(ob.Mul(6,9));  Console.WriteLine(ob.Div(25,5));  Console.ReadLine();  }  }  } |
| **OUTPUT** |
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| **4. 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 WindowsFormsApp3.ServiceReference1;  namespace WindowsFormsApp3  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void button1\_Click(object sender, EventArgs e)  {  int n = Convert.ToInt32(textBox1.Text);  WebService1SoapClient ob = new WebService1SoapClient();  textBox2.Text = ob.Factorial(n).ToString();  }  }  } |
| **OUTPUT** |
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| **5. Put the screen shots of webservice running** |
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