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| **Day-21 assignment**  **By**  **Bhanu Rama Krishna Prakash Jakkamsetti**  **21/2/2022** |

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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: |
| Web service:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Web;  using System.Web.Services;  namespace WebApplication  {  /// <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 += 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: |
| Clint app using console:  using ClintApp.ServiceReference1;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ClintApp  {  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* author:bhanu rama krishna prakash jakkamsetti  \* purpose:access web server by using console app  \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  internal class Program  {  static void Main(string[] args)  {  WebService1SoapClient w = new WebService1SoapClient();  Console.WriteLine(w.Factorial(5));  Console.WriteLine(w.Add(15,5));  Console.WriteLine(w.Mul(15,5));  Console.WriteLine(w.Div(15,5));  }  }  } |
| 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 WindowsForms.ServiceReference1;  namespace WindowsForms  {  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* author:bhanu rama krishna prakash jakkamsetti  \* purpose:access web server by using windows app  \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void button1\_Click(object sender, EventArgs e)  {    int n=Convert.ToInt32(textBox1.Text);  WebService1SoapClient w = new WebService1SoapClient();  textBox2.Text = w.Factorial(n).ToString();  }  }  } |
| Result: |
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