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| Day21 Assignment  (21-02-2022)  -By  Ram Charan |

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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 MyWeb1  {  /// <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  {  /// <summary>  /// This Method is used to find factorial  /// </summary>  /// <param name="n"></param>  /// <returns></returns>  [WebMethod]  public int Factorial(int n)  {  int fact = 1;  for(int i=1;i<=n;i++)  fact= fact \* i;  return fact;  }  /// <summary>  /// This method is used to perform Addition  /// </summary>  /// <param name="a"></param>  /// <param name="b"></param>  /// <returns></returns>  [WebMethod]  public int Add(int a,int b)  {  return a+b;  }  /// <summary>  /// This method is used to perform Division  /// </summary>  /// <param name="a"></param>  /// <param name="b"></param>  /// <returns></returns>  [WebMethod]  public int Div(int a, int b)  {  return a / b;  }  /// <summary>  /// This method is used to perform Multiplication  /// </summary>  /// <param name="a"></param>  /// <param name="b"></param>  /// <returns></returns>  [WebMethod]  public int Mul(int a, int b)  {  return a \* b;  }  }  } |
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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 WebCon1.ServiceReference1;    namespace WebCon1  {  //Author:Rc  //Purpose:Creating console app for webservice  internal class Program  {  static void Main(string[] args)  {  WebService1SoapClient obj=new WebService1SoapClient();  Console.WriteLine(obj.Add(3, 4));  Console.WriteLine(obj.Mul(5,6));  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 WinWeb1.ServiceReference1;    namespace WinWeb1  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }    private void button1\_Click(object sender, EventArgs e)  {  int input=Convert.ToInt32(textBox1.Text);  WebService1SoapClient obj1=new WebService1SoapClient();  textBox2.Text=obj1.Factorial(input).ToString();    }  }  } |
| Output: |
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| **5. Put the screen shots of webservice running** |
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| END OF THE DAY |