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| **Day21 Assignment**  **By**  **Paluru Mounika**  **21-02-2022** |

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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;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Authore:Paluru Mounika  //Purpose:mathematical operations  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace MyClintApp  {  /// <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, i;  for(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;  }  [WebMethod]  public int sub(int a,int b)  {  return a-b;  }  }  } |
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| Output: |

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| **3. Create a Console Application and consume the webservice** |
| **Code :** |
| using matematicsLibrary.ServiceReference1;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Authore:Paluru Mounika  //Purpose:webapllication algebra methodes  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace matematicsLibrary  {  internal class Program  {  static void Main(string[] args)  {    WebService1SoapClient obj = new WebService1SoapClient();  Console.WriteLine(obj.Factorial(5));  Console.WriteLine(obj.Add(5,6));  Console.WriteLine(obj.mul(2, 3));  Console.WriteLine(obj.sub(9, 4));  Console.WriteLine(obj.div(4, 2));  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 WindowsFormsApp.ServiceReference1;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Authore:Paluru Mounika  //purpose:windows application finding factorial of a number  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace WindowsFormsApp  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void Form1\_Load(object sender, EventArgs e)  {  }  private void button1\_Click(object sender, EventArgs e)  {  int n=Convert.ToInt32(textBox1.Text);  WebService1SoapClient obj = new WebService1SoapClient();  textBox2.Text=obj.Factorial(n).ToString();  }  }  } |
| **Output:** |
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| **5. Put the screen shots of webservice running** |
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