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| Day21 Morning Assignment  By  Anusha Bellala  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: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Web;  using System.Web.Services;  namespace AnushaWebServices  {  /// <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 ClientApp.ServiceReference1;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ClientApp  {  internal class Program  {  static void Main(string[] args)  {  WebService1SoapClient obj = new WebService1SoapClient();  Console.WriteLine($"Addition={obj.Add(4,5)}");  Console.WriteLine($"Mutiplication={obj.Mul(6,7)}");  Console.WriteLine($"Division={obj.Div(30,5)}");  Console.WriteLine(obj.Factorial(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 MyWindowsApplication.ServiceReference1;  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;  namespace MyWindowsApplication  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  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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