Day 21 Assignment

By

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NB Healthcare and Technology

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**Topics**

**Web Service**

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| 1. Create a web service for Mathematical Operations. |
| Steps to Create Web Service: |
| * Add .NET Framework project and item Template to Visual Studio in VS Installer * After modifying open VS and select for dropdown: C# language, Windows platform, Web type. * Find and select ASP.NET Web Application (.NET Framework) * Create the web project. |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Web;  using System.Web.Services;  namespace MyMathematicsWebLibrary  {  /// <summary>  /// Summary description for MathsOperations  /// </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 MathsOperations : 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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| 2. Create a Console Application and consume the webservice |
| Code : |
| using MyTestClientApp.ServiceReference1;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace MyTestClientApp  {  internal class Program  {  static void Main(string[] args)  {  MathsOperationsSoapClient obj = new MathsOperationsSoapClient();  Console.WriteLine(obj.Factorial(4));  Console.WriteLine(obj.Add(5, 10));  Console.WriteLine(obj.Mul(2, 5));  Console.WriteLine(obj.Add(6, 3));  Console.ReadLine();  }  }  } |
| Output : |
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| 3. Create a Windows Forms application and consume the webservice (Factorial). |
| 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 WindowsFormsApp1.ServiceReference1;  namespace WindowsFormsApp1  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void textBox2\_TextChanged(object sender, EventArgs e)  {  }  private void button1\_Click(object sender, EventArgs e)  {  int num;  num = Convert.ToInt32(textBox1.Text);  MathsOperationsSoapClient ans = new MathsOperationsSoapClient();  textBox2.Text = ans.Factorial(num).ToString();  }  private void textBox1\_TextChanged(object sender, EventArgs e)  {  }  private void label1\_Click(object sender, EventArgs e)  {  }  }  } |
| Output : |
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| 4. Screen shots of webservice running |
| Screenshot: |
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