Day 21 Assignment

By

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| 1. 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 WebApplication1  {  /// <summary>  /// Summary description for mathematics  /// </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 mathematics : System.Web.Services.WebService  {    [WebMethod]  public string HelloWorld()  {  return "Hello World";  }    [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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| Create a Console Application and consume the webservice |

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| Code : |
| using \_21dayproject1.ServiceReference1;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace \_21dayproject1  {  internal class Program  {  static void Main(string[] args)  {  mathematicsSoapClient m = new mathematicsSoapClient();  Console.WriteLine(m.Factorial(5));  Console.WriteLine(m.add(5,6));  Console.WriteLine(m.mul(5,6));  Console.WriteLine(m.div(5,6));  Console.ReadLine();  }  }  } |
| Output: |
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| 2. Create a Windows Forms application and consume the webservice  [ for finding factorial of the number ] |
| Code: |
| using Mycilent\_Desktop\_.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 Mycilent\_Desktop\_  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }    private void button1\_Click(object sender, EventArgs e)  {  int n = Convert.ToInt32(textBox1.Text);  mathematicsSoapClient m = new mathematicsSoapClient();    textBox2.Text = m.Factorial(n).ToString();    Console.ReadLine();  }  }  } |
| Output: |
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