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| Day-21 Morning Assignment  By  U.Joshna  [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   |  | | --- | | using System;  using System.Collections.Generic;  using System.Linq;  using System.Web;  using System.Web.Services;    namespace MyWebApplication  {  public class WebService1 : 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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| 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( obj.Add(6,7));  Console.WriteLine( obj.Mul(8,9));  Console.WriteLine( obj.Div(10,11));  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 System;  using System.Threading.Tasks;  using System.Windows.Forms;  using WindowsFormsApp1.ServiceReference1;    namespace WindowsFormsApp1  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }    private void button1\_Click(object sender, EventArgs e)  {  int n = Convert.ToInt32(textBox1.Text);    WebService1SoapClient ws = new WebService1SoapClient();  textBox2.Text = ws.Factorial(n).ToString();  }  }  } |
| Output: |
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| 5. Put the screen shots of webservice running |
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