***DAY 21 ASSIGNMENT PRESENTED***

***BY***

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***21-02-2022***

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| **1.Update your visual studio with .Net Framework Templates add on ( as discussed in the class).** |
| **Step 1:**open control panel and select programs and click on programs and features. |
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| **Step 2:**select visual studio community 2022 and press the right click after click the “change” option. |
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| **Step 3:** select ASP.Net Framework and go to individual components , here select .NET Framework project and item templates option after click on modify. |
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| **Step 4:** here it is the new features of ASP.NET Web Application |
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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;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Author: JEEVITHA  //Purpose: Create web service for mathematical operation  // Factorial, Add, Mul, Div  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace MYWEBAPPLICATION  {  /// <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;  }  }  } |
| **Output:** |
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| **3. Create a Console Application and consume the webservice** |
| **Code:** |
| using Mathematics.ServiceReference1;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author: JEEVITHA  // Purpose: Console Application and consume Web Application  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Mathematics  {  internal class Program  {  static void Main(string[] args)  {  WebService1SoapClient obj = new WebService1SoapClient();  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\* FACTORIAL OF A NUM \*\*\*\*\*\*\*\*\*\*");  Console.WriteLine(obj.Factorial(7));  Console.WriteLine("\*\*\*\*\*\*\*\*\* ADDITION \*\*\*\*\*\*\*\*");  Console.WriteLine(obj.Add(2,4));  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\* multiplication \*\*\*\*\*\*\*\*\*\*\*");  Console.WriteLine(obj.Mul(7,8));  Console.WriteLine("\*\*\*\*\*\*\*\* DIVISION \*\*\*\*\*\*\*\*\*\*\*");  Console.WriteLine(obj.Div(10,2));  Console.ReadLine();  }  }  } |

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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 windows\_app.ServiceReference1;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //Author: JEEVITHA  //Purpose: a windows forms application and consume webservice  // for finding factorial of a number  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace windows\_app  {  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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