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| **Day-21 Morning Assignments**  **By**  **Manoj Yekolla**  **21-Feb-2022** |

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| **1. Update your Visual Studio with .Net Framework Templates add on (as discussed in the class)** |
| **ScreenShot :** |
| Screenshot (352) |

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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 MyMathsWebService  {  /// <summary>  /// Summary description for Algebra  /// </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 Algebra : System.Web.Services.WebService  {  [WebMethod]  public string HelloWorld()  {  return "Hello World";  }  [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;  }  [WebMethod]  public int Factorial(int n)  {  int fact = 1,i ;  for( i = 1; i <=n; i++)  {  fact = fact \* i;  }  return fact;  }  }  } |
| **Output :**  Screenshot (355) |

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| **3. Create a Console Application and consume the webservice** |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using MyClientApp.ServiceReference1;  namespace MyClientApp  {  internal class Program  {  static void Main(string[] args)  {  AlgebraSoapClient obj = new AlgebraSoapClient();  Console.WriteLine("Factorial Number 5 is {0}:",obj.Factorial(5));  Console.WriteLine("Add two Numbers 5 and 4 is {0}:", obj.Add(5,4));  Console.WriteLine("Mul two Numbers 8 and 3is {0}:", obj.Mul(8,3));  Console.WriteLine("Div two Numbers 6 and 4 is {0}:", obj.Div(6,4));  Console.ReadLine();  }  }  } |
| **Output :** |
| Screenshot (358) |
| **Solution Explorer :** |
| Screenshot (359) |

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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 WindowsFormsApp1\_Factorial\_.ServiceReference1;  namespace WindowsFormsApp1\_Factorial\_  {  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 :**  Screenshot (362) |
| **Solution Explorer :** |
| Screenshot (364) |

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| **5. Put the screen shots of webservice running** |
| Screenshot (366) |