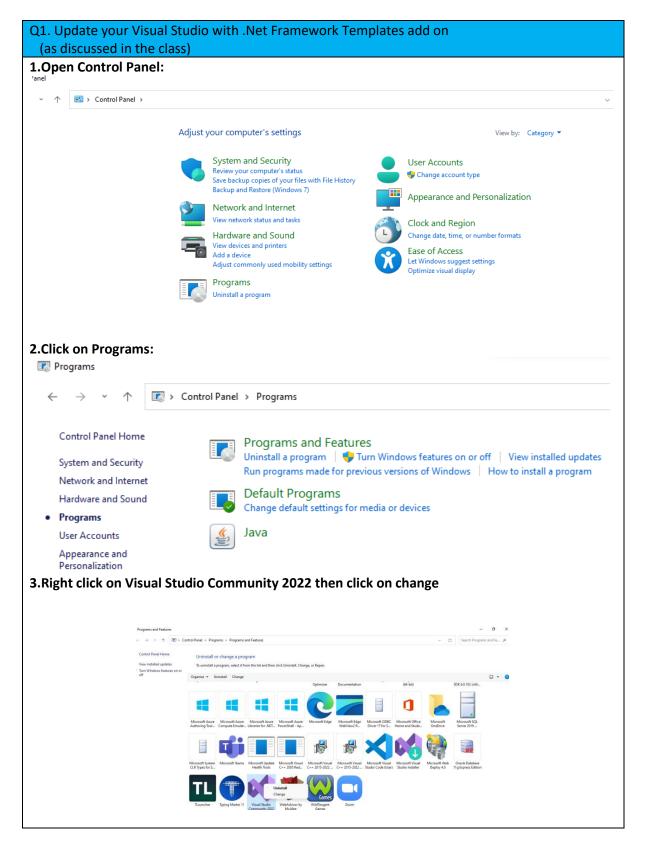
## Day 21(21-02-2022) Assignment By Sudha Kumari Sugasani



## 4. Select . Net Framework project and item templates then click on modify Modifying - Visual Studio Community 2022 - 17.0.6 Workloads Individual components Language pac Search components (Ctrl+Q) .NET Framework 4.6.1 targeting pack .NET Framework 4.6.2 SDK .NET Framework 4.6.2 targeting pack .NET Framework 4.7 SDK .NET Framework 4.7 targeting pack .NET Framework 4.7.1 SDK .NET Framework 4.7.1 targeting pack .NET Framework 4.7.2 SDK NET Framework 4.7.2 targeting pack .NET Framework 4.8 SDK NET Framework 4.8 targeting pack NET Framework project and item templates 5.New templates are added Windows C# Web ASP.NET Web Application (.NET Framework) Project templates for creating ASP.NET applications. You can create ASP.NET Web Forms, MVC, or Web API applications and add many other features in ASP.NET. Windows Cloud Web Driver Test for Edge (.NET Framework) A project that contains unit tests that can automate UI testing of web sites within Edge browser (using Microsoft WebDriver). C# Windows Web Test Q2. 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 MathematicsLibrary /// <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
         /// <summary>
         /// This method will return factorial
         /// </summary>
         /// <param name="n">int</param>
         /// <returns>Fact(int)</returns>
         [WebMethod]
         public int Factorial(int n)
             int fact = 1,i;
             for(i=1;i<=n;i++)
                 fact = fact * i;
             return fact;
         }
         /// <summary>
         /// This method will return sum of two numbers
         /// </summary>
         /// <param name="a">int</param>
         /// <param name="b">int</param>
         /// <returns>Sum(int)</returns>
         [WebMethod]
        public int Add(int a,int b)
             return a + b;
         /// <summary>
         /// This method will return Product of two numbers
         /// </summary>
         /// <param name="a">int</param>
         /// <param name="b">int</param>
         /// <returns>Product(int)</returns>
         [WebMethod]
        public int Mul(int a,int b)
             return a*b;
        }
    }
}
Output:
   × +
       → C https://localhost:44324/WebService1.asmx
   WebService1
   The following operations are supported. For a formal definition, please review the Service Description.

    Add

    Factorial

        • Mul
Q3. Create a Console Application and consume the webservice
```

```
Code:
using Day21Project1.ServiceReference1;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day21Project1
* Author: Sudha Kumari Sugasani
    * Purpose:Example program to create webservice for Mathematical Operations
****************************
   internal class Program
      static void Main(string[] args)
          WebService1SoapClient obj = new WebService1SoapClient();
          Console.WriteLine($"The factorial of given numer is
{obj.Factorial(5)}");
          Console.WriteLine($"The sum of numbers is {obj.Add(5,6)}");
          Console.WriteLine($"Product of numbers is {obj.Mul(5,6)}");
          Console.ReadLine();
      }
   }
}
```

Output:

C:\NH\.NET Projects\Day21Project1\Day21Project1\bin\Debug\Day21Project1.exe

The factorial of given numer is 120 The sum of numbers is 11 Product of numbers is 30

Q4. Create a Windows Forms application and consume the webservice

[ for finding factorial of the number ]

```
Code:

using Day21Project2.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 Day21Project2
{
```

```
* Author: Sudha Kumari Sugasani
    * Purpose:Example program for windows application and consume the web
service
***********************************
   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:
                 Enter a number
                                Factorial
                                      5
                   Enter a number
                                  Factorial
                              120
Q5. Put the screen shots of webservice running
```

