



DAY21 ASSIGNMENT

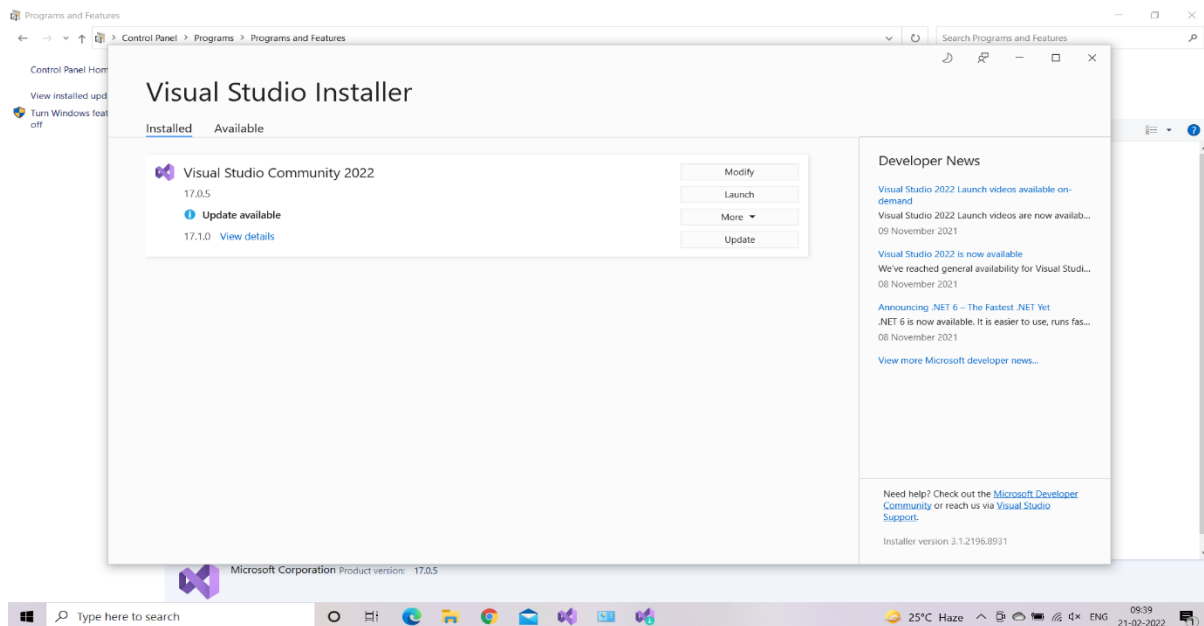
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FEBRUARY 21, 2022

NB HEALTHCARE TECHNOLOGES

**1. Update your Visual Studio with .Net Framework Templates add on
(As discussed in the class)**



**2. Create a web service for Mathematical Operations.
Example: Factorial, add, mul, div.**

Code:

```
//Author: Bhanu Praksh Reddy
//Creating a webservice for mathematics operation
public class WebService1 : System.Web.Services.WebService
{
    [WebMethod]
    public int Factorial(int n)
    {
        int fact = 1;
        for (int i=1;i<n; i++)
        {
            fact *= i;
        }
        return fact;
    }

    [WebMethod]
    public int Add(int a,int b)
    {
        return a+b;
    }

    [WebMethod]
    public int Mul(int a, int b)
    {
```

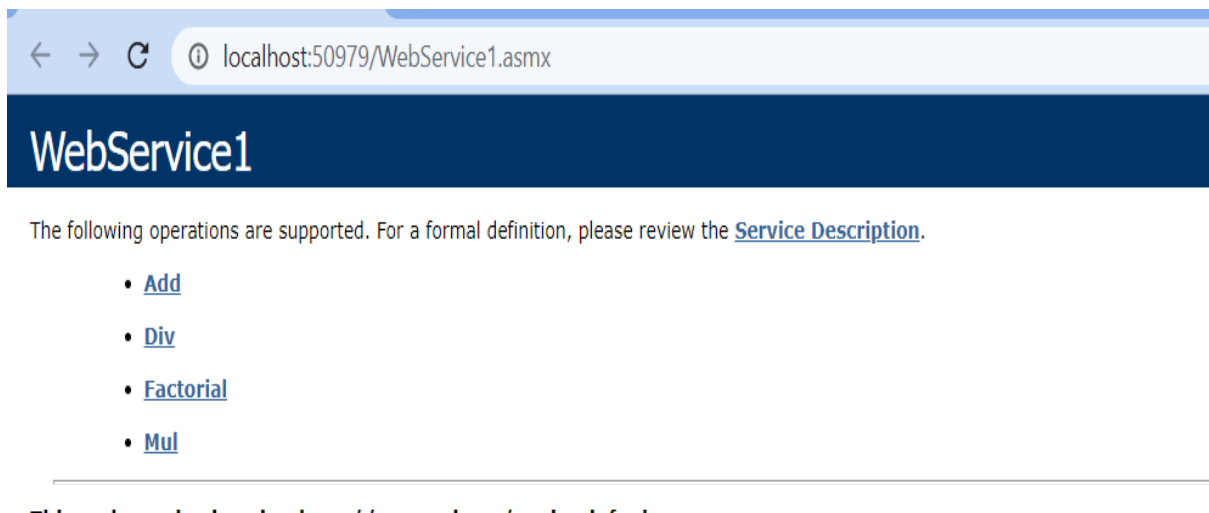
```

        return a * b;
    }

    [WebMethod]
    public int Div(int a, int b)
    {
        return a / b;
    }
}

```

Output:



3. Create a Console Application and consume the webservice.

Code:

```

using ClientApp.ServiceReference1;


namespace ClientApp
{
    internal class Program
    {
        static void Main(string[] args)
        {
            WebService1SoapClient obj=new WebService1SoapClient();

            Console.WriteLine($"The factorial of the number is
{obj.Factorial(4)}");
            Console.WriteLine($"Sum of the numbers is {obj.Add(4,6)}");
            Console.WriteLine($"Multiplication of the numbers is
{obj.Mul(7,3)}");
            Console.WriteLine($"Divison of the numbers is {obj.Div(30,10)}");

            Console.ReadLine();
        }
    }
}

```

Output:

 D:\assignments\ClientApp\ClientApp\bin\Debug\ClientApp.exe

```
The factorial of the number is 24  
Sum of the numbers is 10  
Multiplication of the numbers is 21  
Divison of the numbers is 3
```

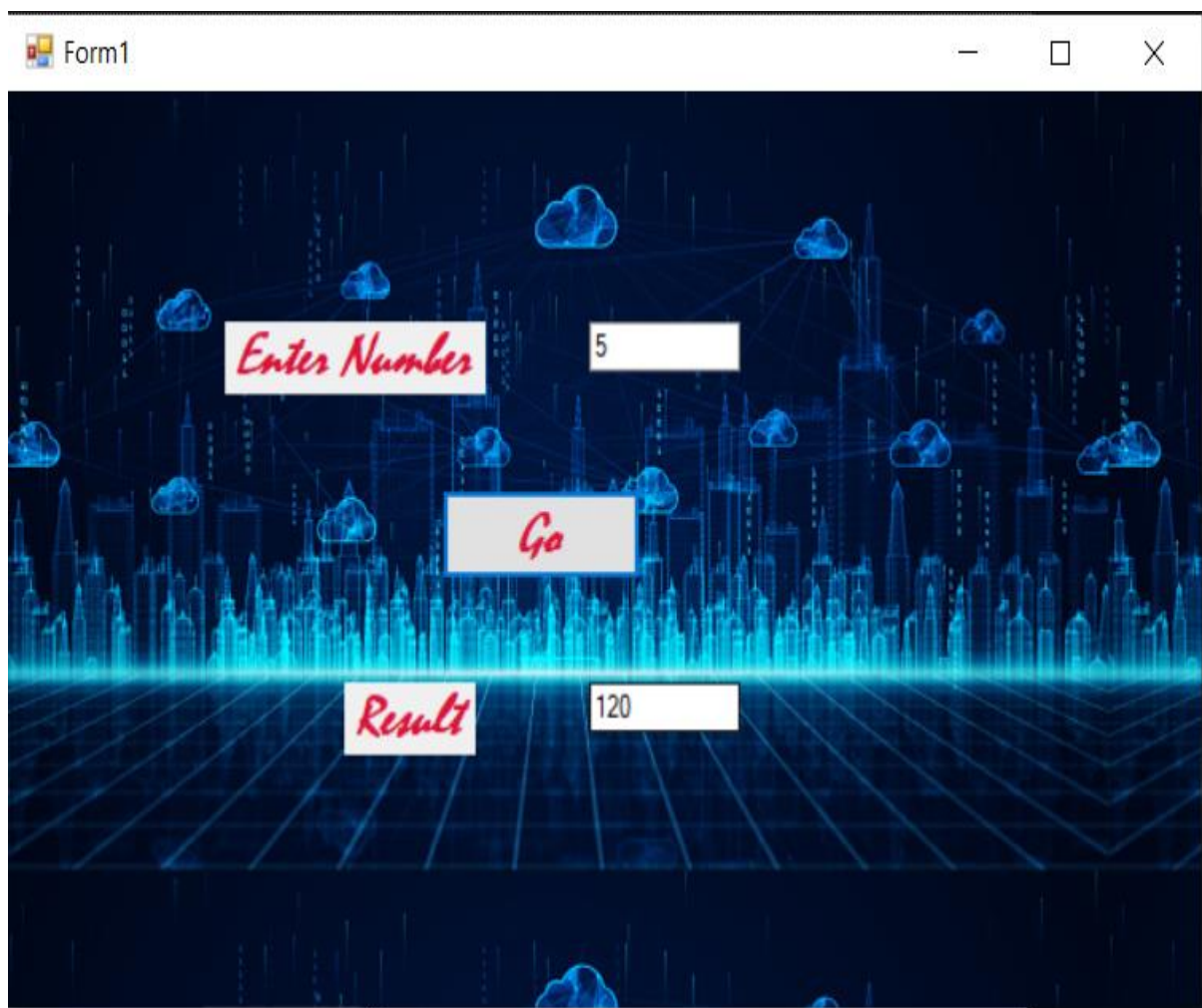
4. Create a Windows Forms application and consume the webservice
[for finding factorial of the number]

Code:

```
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:



5. Put the screen shots of webservice running.

