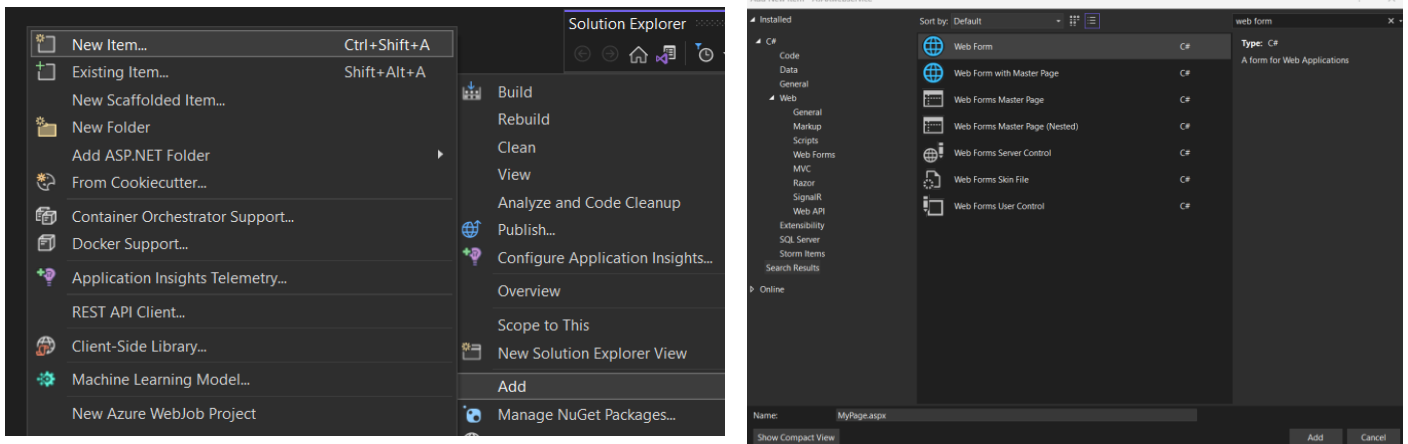


PRACTICAL 8

Aim: Use WCF to create a basic ASP.NET asynchronous Javascript & XML (AJAX).

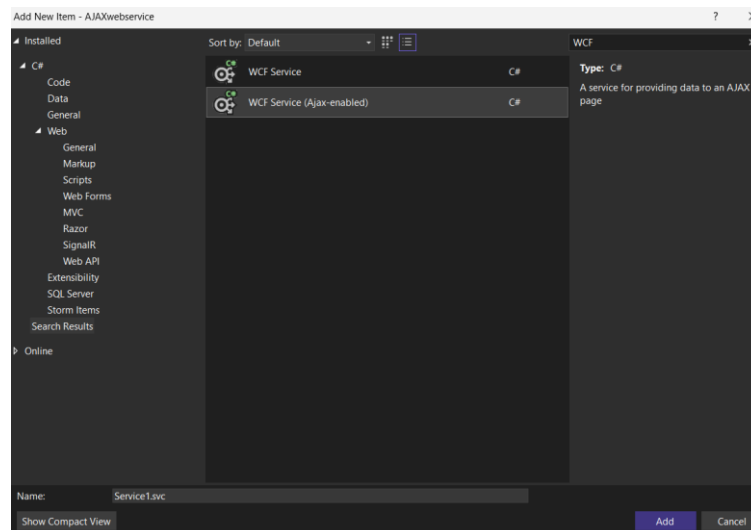
- 1) Open Visual Studio. File → New → Project → ASP.NET Web Application.
- 2) Name of the project is “AJAXwebvservice” → Select empty project.
- 3) Add a default WebForm.aspx and rename it. For this step, right click on your project → Add → New Item → Web Form. Rename the web form as “MyPage.aspx”. Click on Add button.



- 4) Now, create AJAX enabled Service.

Right click on Project → Add → New Item → Select WCF Service (AJAX Enabled).

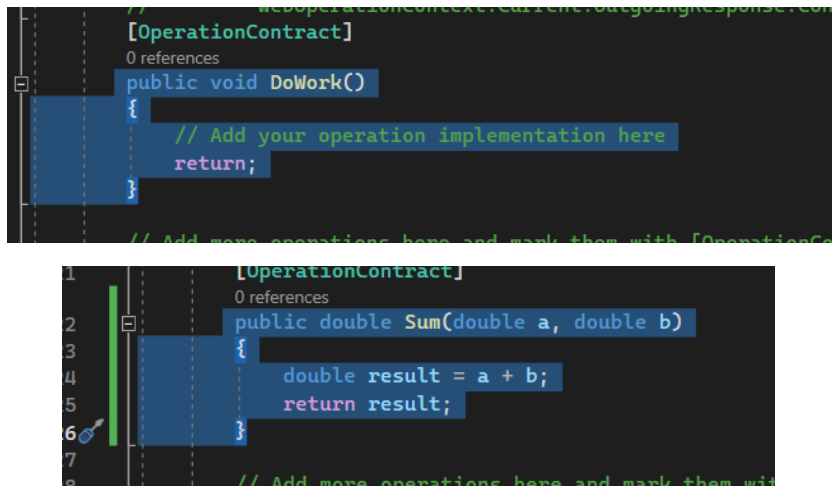
(if WCF Service (AJAX Enabled) Not Found Then Open Visual Studio Installer In Click on Modify then Click On Individual Component Search For **Windows Communication Foundation** and check it and click on modify)



- 5) Open AJAX File add the following code by replacing DoWork() Method

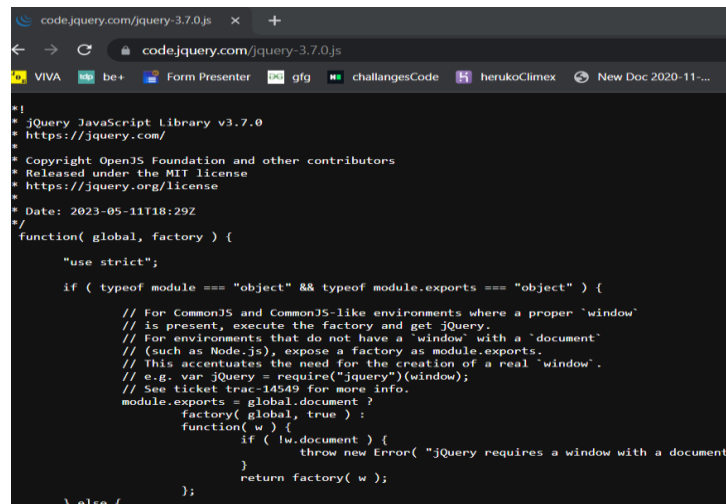
public double Sum(double a, double b)

```
{  
double result = a + b;  
return result  
}
```



6) Download jquery. To download the JQuery follow the following steps:

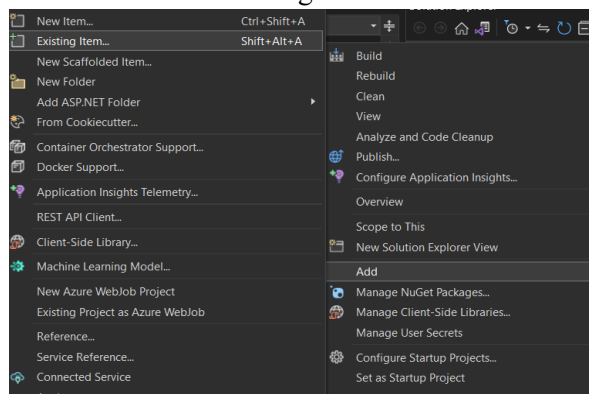
- Open Google chrome. Type the “https://jquery.com/” URL in search engine.
- Click on download JQuery.
- Click on “download the Uncompressed, development jQuery 3.7.0”. The following window will display.



- Select all text. Copy the text & paste it in notepad++ or notepad.
- Save the file with name “JQuery.js”.

7) To add Library for JQuery in Project.

Now, right click on Project Name → Add → Existing Item → Add.



8) Open MyPage.aspx & Add the Following Code inside the <div> tag.

Enter a Number :<input id="txt1" type="text" />

Enter a Number:<input id="txt2" type="text" />

<input id="btn" type="button" value="Add Numbers" />

<input id="txt3" type="text" />



9) Add the following code in MyPage.aspx in <head> tag

```
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript">
    $(document).ready(function () {
        $("#btn").click(function () {
            var num1 = $("#txt1").val();
            var num2 = $("#txt2").val();
            alert(num1);
            alert(num2);
            $.ajax({
                url: "Service1.svc/Sum",
                type: "POST",
                contentType: "application/json; charset=utf-8",
                data: JSON.stringify({ a: num1, b: num2 }),
                dataType: "json",
                success: function (data) {
                    alert(data.d);
                    $("#txt3").val(data.d);
                },
                error: function (err) {
                    alert(err);
                }
            });
        });
    });
</script>
```

```

MyPage.aspx.cs  Service1.svc.cs  MyPage.aspx  # X
5  <html xmlns="http://www.w3.org/1999/xhtml">
6  <head runat="server">
7  <title></title>
8  <script type="text/javascript" src="jquery.js"></script>
9  <script type="text/javascript">
10     $(document).ready(function () {
11         $("#btn").click(function () {
12             var num1 = $("#txt1").val();
13             var num2 = $("#txt2").val();
14             alert(num1);
15             alert(num2);
16             $.ajax({
17                 url: "Service1.svc.cs/Sum",
18                 type: "POST",
19                 contentType: "application/json; charset=utf-8",
20                 data: JSON.stringify({ a: num1, b: num2 }),
21                 dataType: "json",
22                 success: function (data) {
23                     alert(data.d);
24                     $("#txt3").val(data.d);
25                 },
26                 error: function (err) {
27                     alert(err);
28                 }
29             });
30         });
31     });
32 </script>
33 </head>

```

10) Build & run the Project.

localhost:44347/MyPage.aspx

https://localhost:44347/MyPage.aspx

Enter num1:

Enter num2: