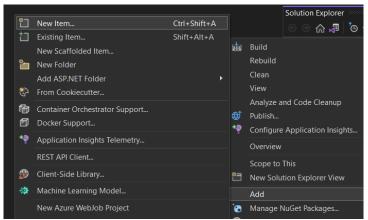
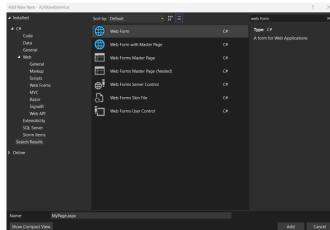
PRACTICAL 8

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

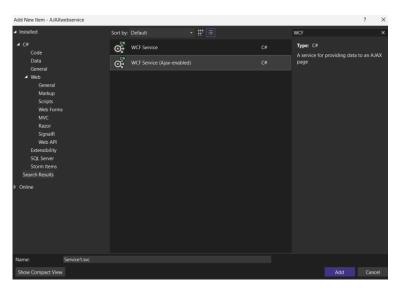
- 1) Open Visual Studio. File \rightarrow New \rightarrow Project \rightarrow ASP.NET Web Application.
- 2) Name of the project is "AJAXwebvservice" → Select empty project.
- 3) Add a default WebForm.aspx and rename it. For this step, right click on your project → Add → New Item → Web Form. Rename the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

```
[OperationContract]
0 references
public void DoWork()
{
    // Add your operation implementation here return;
}

// Add many operationContract]
0 references
public double Sum(double a, double b)
4
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.

```
code;query.com/jquery-3.7.0;s  

c c a code;query.com/jquery-3.7.0;s  

VVVA  be bet  Form Presenter  gg gg  challangesCode  herukoClimex  New Doc 2020-11-...  

*!

*jQuery JavaScript Library v3.7.0  
*https://jquery.com/

* Copyright OpenJS Foundation and other contributors  
* Released under the MIT license  
* https://jquery.org/license  

* Date: 2023-05-11T18:292  

*/function( global, factory ) {

* "use strict";

if ( typeof module === "object" && typeof module.exports === "object" ) {

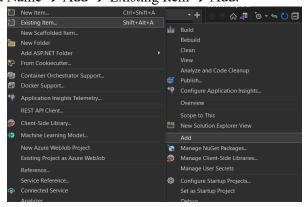
// For CommonJS and CommonJS-like environments where a proper `window'  
// is present, execute the factory and get jQuery.  
// for environments that do not have a window with a `document'  
// This accentuates the need for the creation of a real `window' .

// seg. var jQuery = require("jquery")(window);  
// seg ticket trac-12549 for more info.  
*module.exports = global.document ?  
*factory( global, true) :  
*function( w ) {

*throw new Error( "jQuery requires a window with a document"  
*peturn factory( w ); }
```

- 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" /> <br /> <br /> <

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

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

10) Build & run the Project.

