

WEB SERVICES

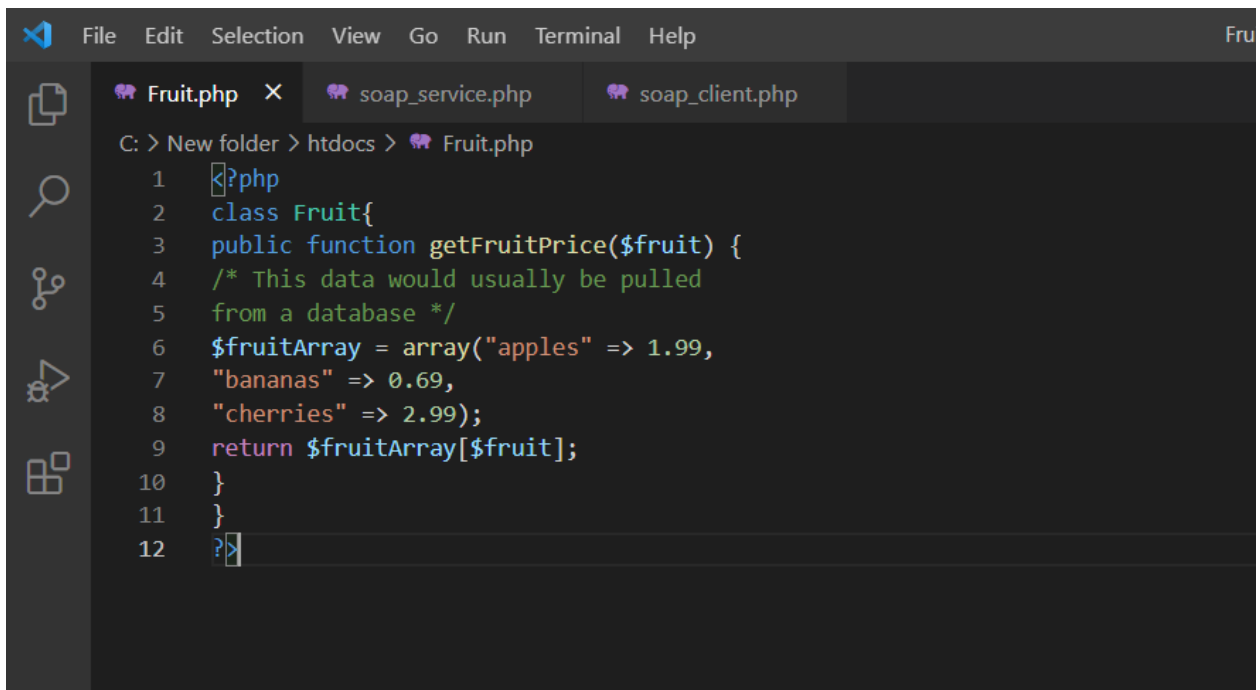
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MCA(R)

2019202049

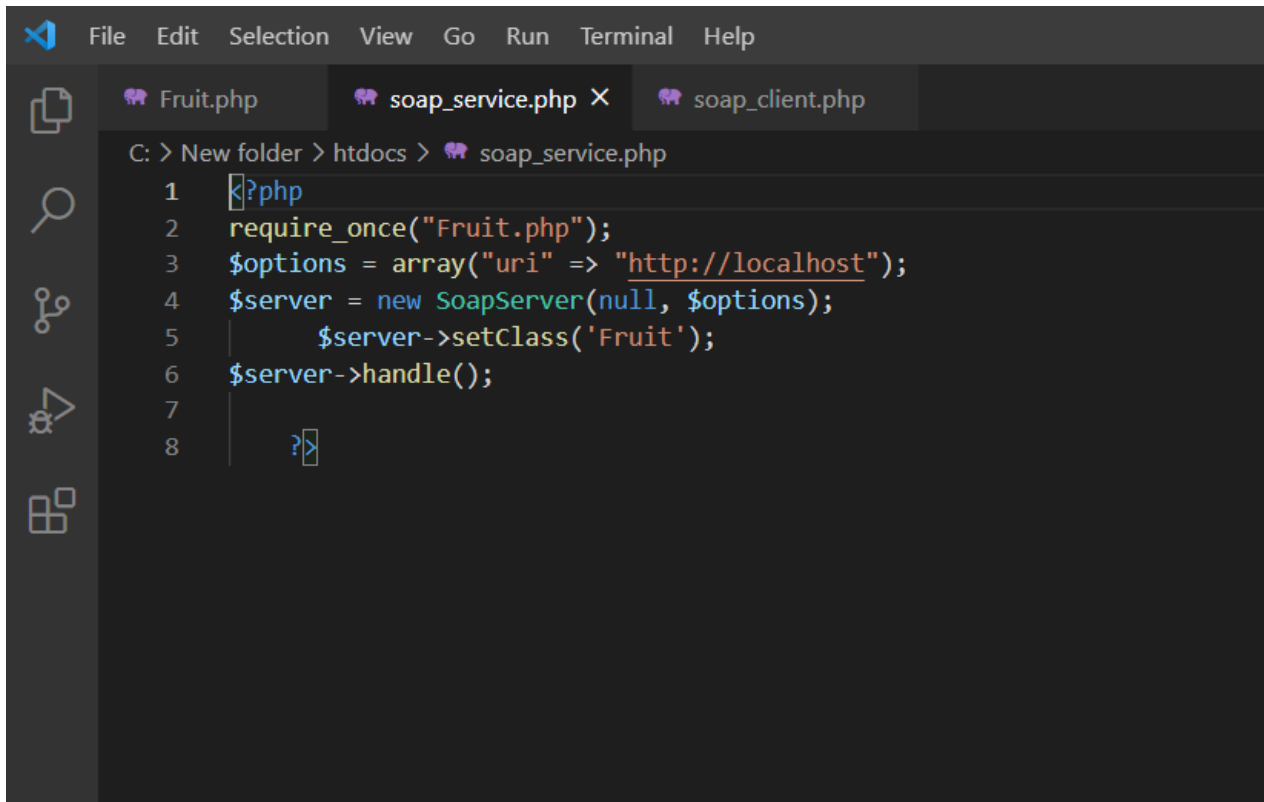
PHP WEB SERVICES:

FRUIT.PHP



```
File Edit Selection View Go Run Terminal Help
Fruit.php X soap_service.php soap_client.php
C: > New folder > htdocs > Fruit.php
1 <code>?php</code>
2 <code>class Fruit{</code>
3 <code>public function getFruitPrice($fruit) {</code>
4 <code>/* This data would usually be pulled</code>
5 <code>from a database */</code>
6 <code>$fruitArray = array("apples" => 1.99,</code>
7 <code>"bananas" => 0.69,</code>
8 <code>"cherries" => 2.99);</code>
9 <code>return $fruitArray[$fruit];</code>
10 <code>}</code>
11 <code>}</code>
12 <code>?></code>
```

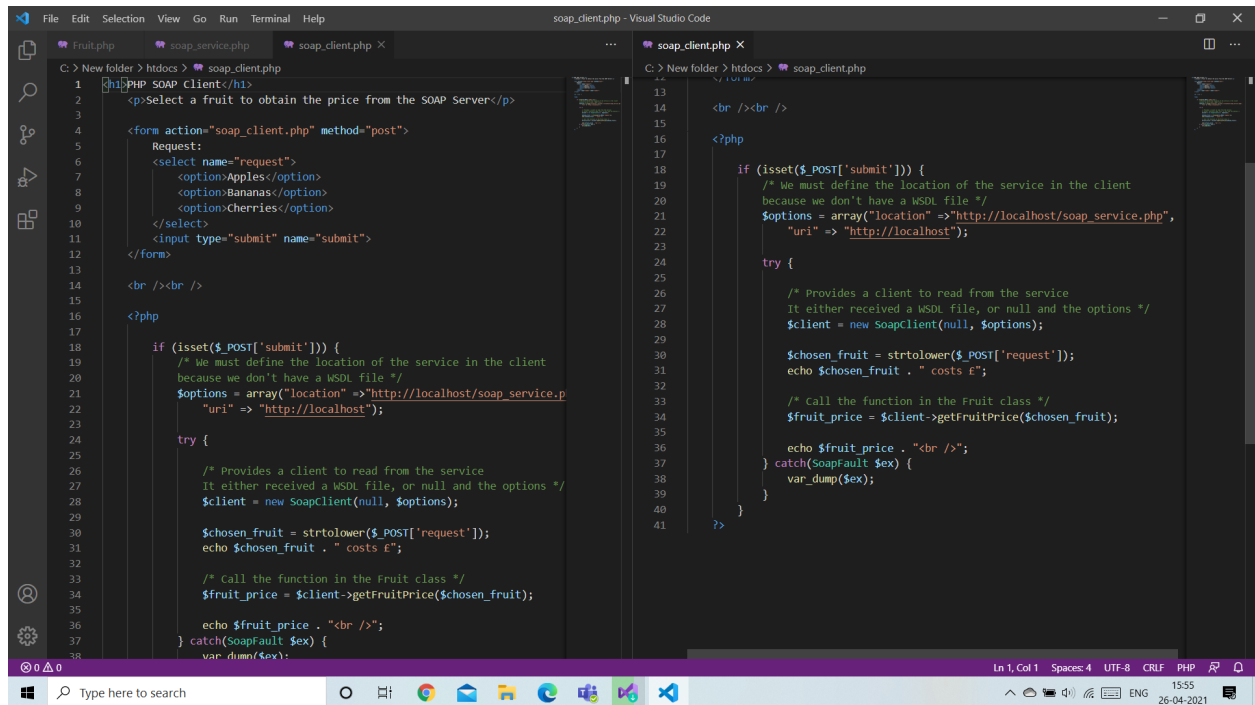
SOAP_SERVICE.PHP:



The image shows a screenshot of a code editor with a dark theme. The editor has a menu bar at the top with options: File, Edit, Selection, View, Go, Run, Terminal, and Help. Below the menu bar, there are three tabs: Fruit.php, soap_service.php (which is the active tab), and soap_client.php. The main editing area shows the following PHP code:

```
C: > New folder > htdocs > soap_service.php
1  <?php
2  require_once("Fruit.php");
3  $options = array("uri" => "http://localhost");
4  $server = new SoapServer(null, $options);
5      $server->setClass('Fruit');
6  $server->handle();
7
8  ?>
```

SOAP_CLIENT.PHP



```
1 <?php SOAP Client:</?>
2 <p>Select a fruit to obtain the price from the SOAP Server</p>
3
4 <form action="soap_client.php" method="post">
5     Request:
6     <select name="request">
7         <option>Apples</option>
8         <option>Bananas</option>
9         <option>Cherries</option>
10    </select>
11    <input type="submit" name="submit">
12 </form>
13
14 <br /><br />
15
16 <?php
17
18 if (isset($_POST['submit'])) {
19     /* We must define the location of the service in the client
20     because we don't have a WSDL file */
21     $options = array("location" => "http://localhost/soap_service.p",
22                     "uri" => "http://localhost");
23
24     try {
25
26         /* Provides a client to read from the service
27         It either received a WSDL file, or null and the options */
28         $client = new SoapClient(null, $options);
29
30         $chosen_fruit = strtolower($_POST['request']);
31         echo $chosen_fruit . " costs €";
32
33         /* Call the function in the Fruit class */
34         $fruit_price = $client->getFruitPrice($chosen_fruit);
35
36         echo $fruit_price . "<br />";
37     } catch (SoapFault $ex) {
38         var_dump($ex);
39     }
40 }
41 }
```

OUTPUT:

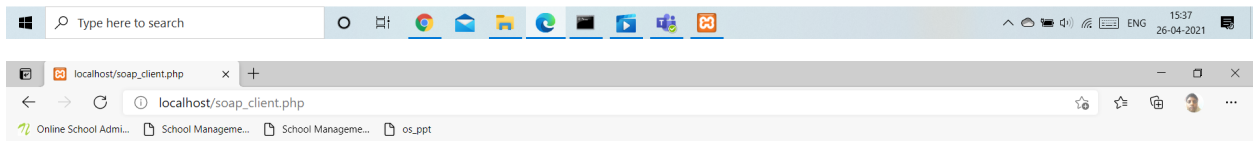


PHP SOAP Client

Select a fruit to obtain the price from the SOAP Server

Request:

apples costs £1.99



PHP SOAP Client

Select a fruit to obtain the price from the SOAP Server

Request:

bananas costs £0.69





PHP SOAP Client

Select a fruit to obtain the price from the SOAP Server

Request:

cherries costs £2.99



ASP.NET WEB SERVICES USING VISUAL STUDIO 2019

PROGRAM:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;

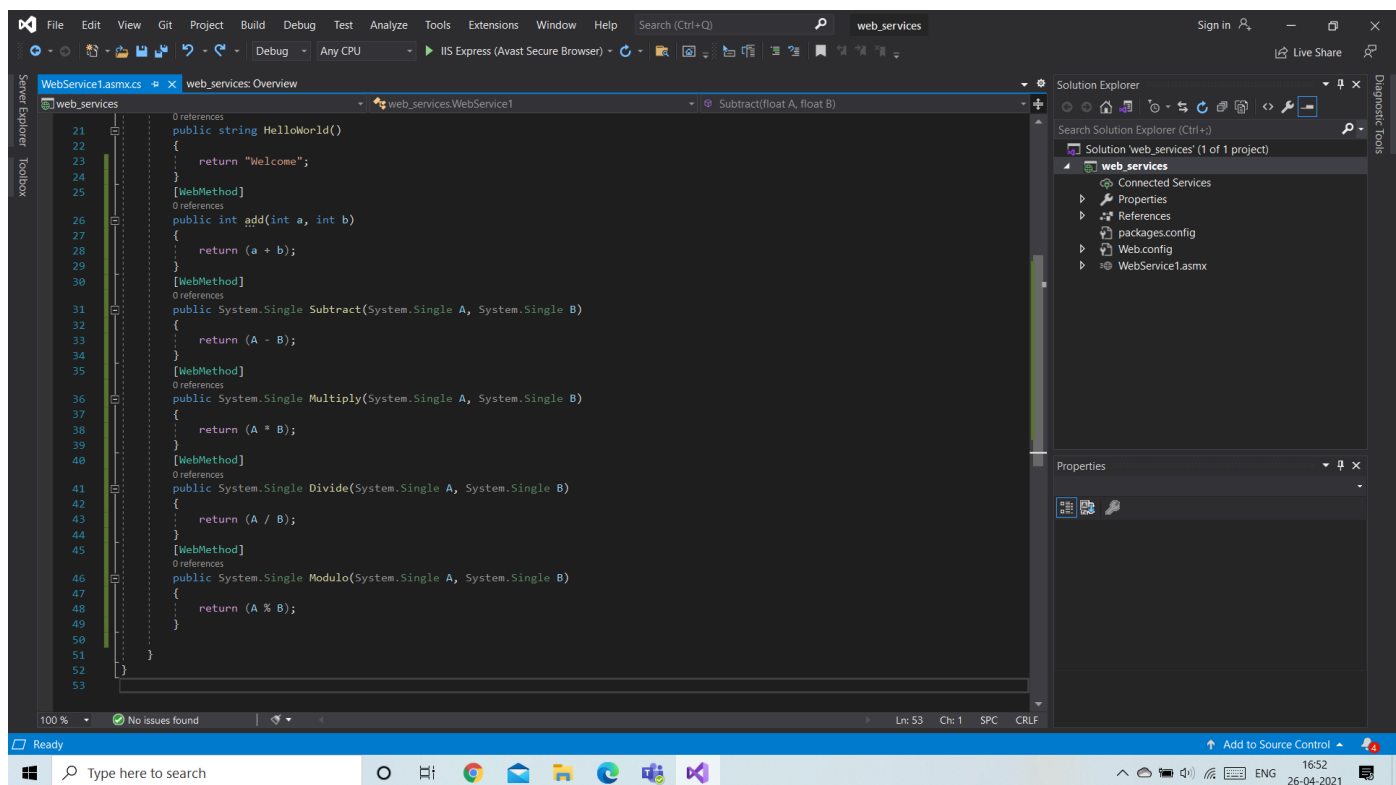
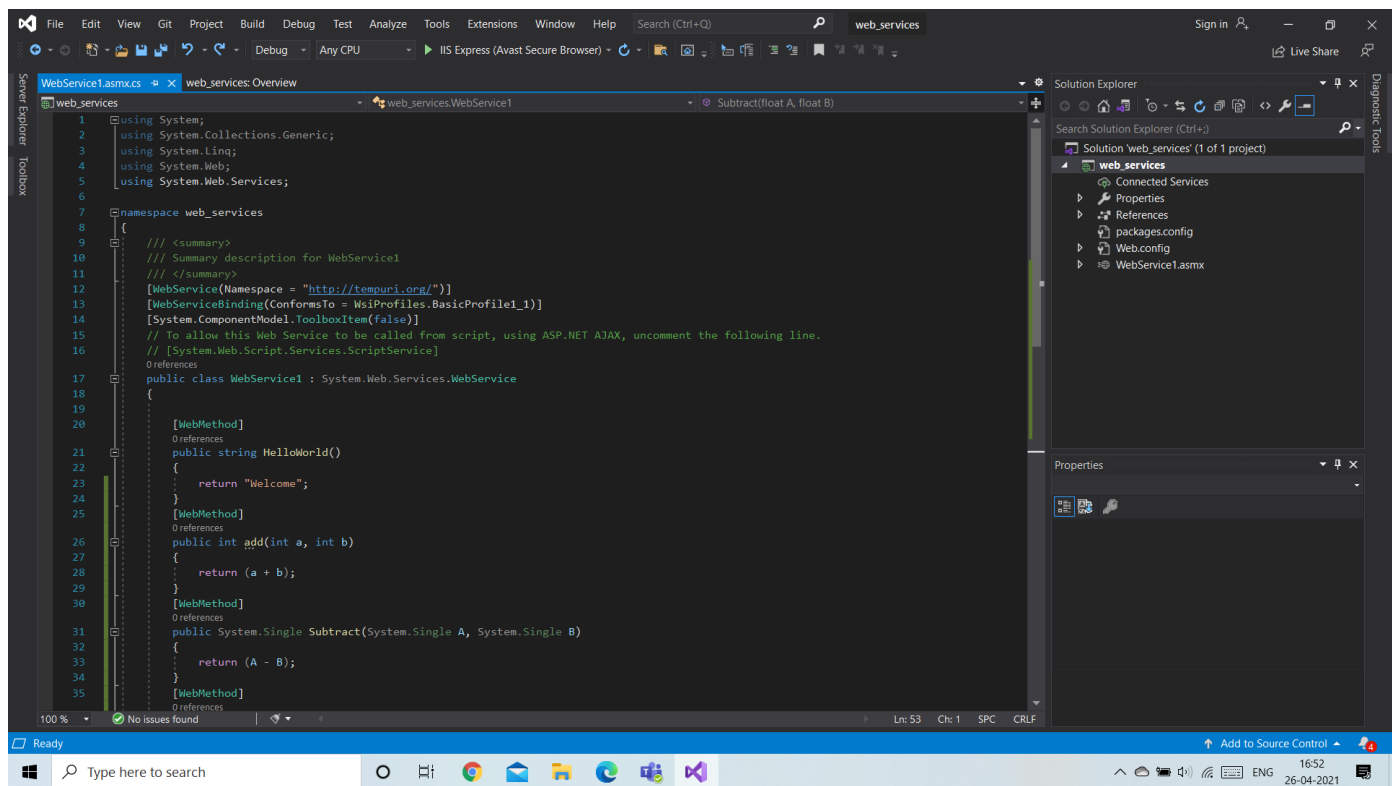
namespace web_services
{
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    // To allow this Web Service 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
    {

        [WebMethod]
        public string HelloWorld()
        {
            return "Welcome";
        }
    }
}
```

```

[WebMethod]
public int add(int a, int b)
{
    return (a + b);
}
[WebMethod]
public System.Single Subtract(System.Single A,
System.Single B)
{
    return (A - B);
}
[WebMethod]
public System.Single Multiply(System.Single A,
System.Single B)
{
    return (A * B);
}
[WebMethod]
public System.Single Divide(System.Single A, System.Single
B)
{
    return (A / B);
}
[WebMethod]
public System.Single Modulo(System.Single A, System.Single
B)
{
    return (A % B);
}}

```



OUTPUT:

WebService1 Web Service x +

← → ↻ ⚠ Not secure | https://localhost:44349/WebService1.asmx

For quick access, place your bookmarks here on the bookmarks bar: [Import bookmarks now...](#)

WebService1

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [Divide](#)
- [HelloWorld](#)
- [Module](#)
- [Multiply](#)
- [Subtract](#)
- [add](#)

This web service is using http://tempuri.org/ as its default namespace.

Recommendation: Change the default namespace before the XML Web service is made public.

Each XML Web service needs a unique namespace in order for client applications to distinguish it from other services on the Web. http://tempuri.org/ is available for XML Web services that are under development, but published XML Web services should use a more permanent namespace.

Your XML Web service should be identified by a namespace that you control. For example, you can use your company's Internet domain name as part of the namespace. Although many XML Web service namespaces look like URLs, they need not point to actual resources on the Web. (XML Web service namespaces are URIs.)

For XML Web services creating using ASP.NET, the default namespace can be changed using the WebService attribute's Namespace property. The WebService attribute is an attribute applied to the class that contains the XML Web service methods. Below is a code example that sets the namespace to "http://microsoft.com/webservices/":

C#

```
[WebService(Namespace="http://microsoft.com/webservices/")]
public class MyWebService {
    // Implementation
}
```

Visual Basic

```
<WebService(Namespace="http://microsoft.com/webservices/") Public Class MyWebService
    ' Implementation
End Class
```

C++

```
[WebService(Namespace="http://microsoft.com/webservices/")]
public ref class MyWebService {
    // Implementation
};
```

For more details on XML namespaces, see the W3C recommendation on [Namespaces in XML](#).

For more details on WSDL, see the [WSDL Specification](#).

Windows Taskbar: Type here to search, icons for Chrome, Mail, File Explorer, Edge, Task View, and other apps. System tray shows network, volume, and date/time (16:50, 26-04-2021).

WebService1 Web Service x +

← → ↻ ⚠ Not secure | https://localhost:44349/WebService1.asmx?op=Divide

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WebService1

Click [here](#) for a complete list of operations.

Divide

Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

Parameter	Value
A:	<input type="text" value="100"/>
B:	<input type="text" value="10"/>

SOAP 1.1

The following is a sample SOAP 1.1 request and response. The placeholders shown need to be replaced with actual values.

```
POST /WebService1.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://tempuri.org/Divide"

<?xml version="1.0" encoding="utf-8">
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <Divide xmlns="http://tempuri.org/">
      <@float/>A
      <@float/>B
    </Divide>
  </soap:Body>
</soap:Envelope>

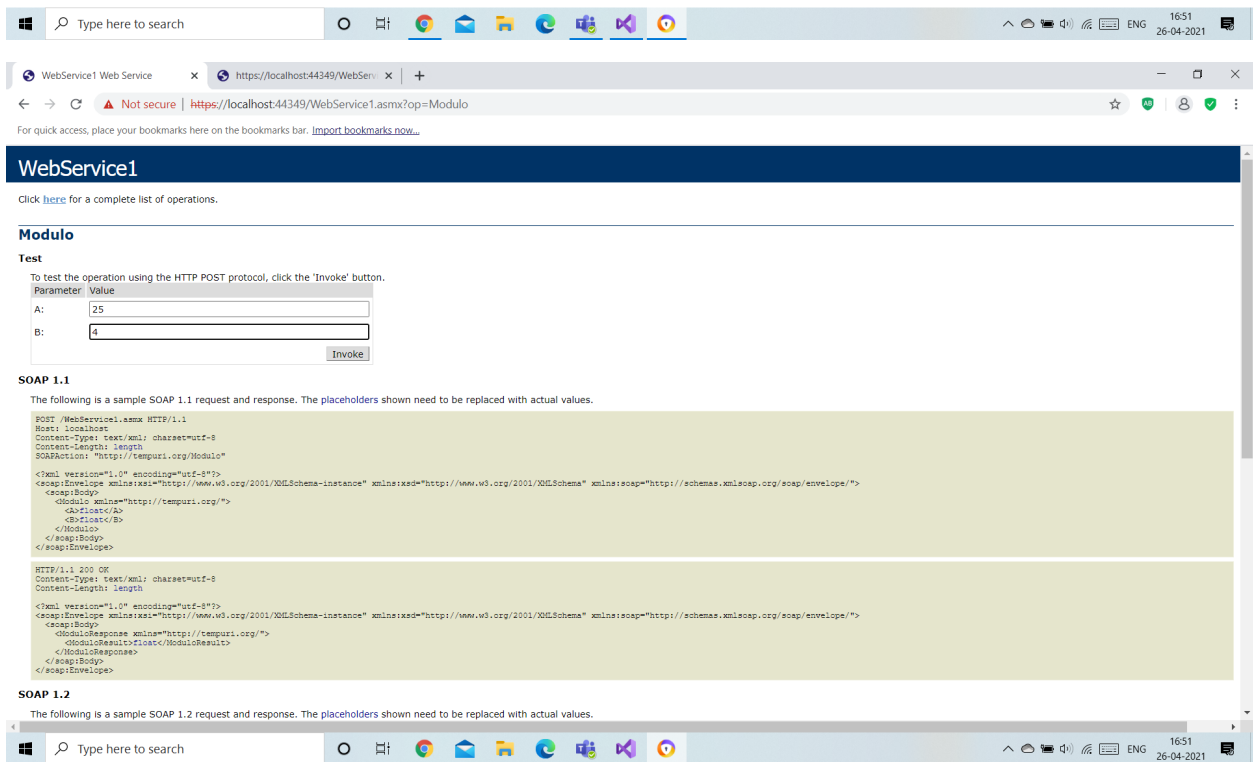
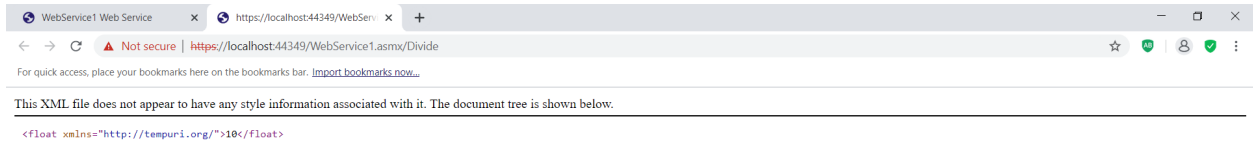
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

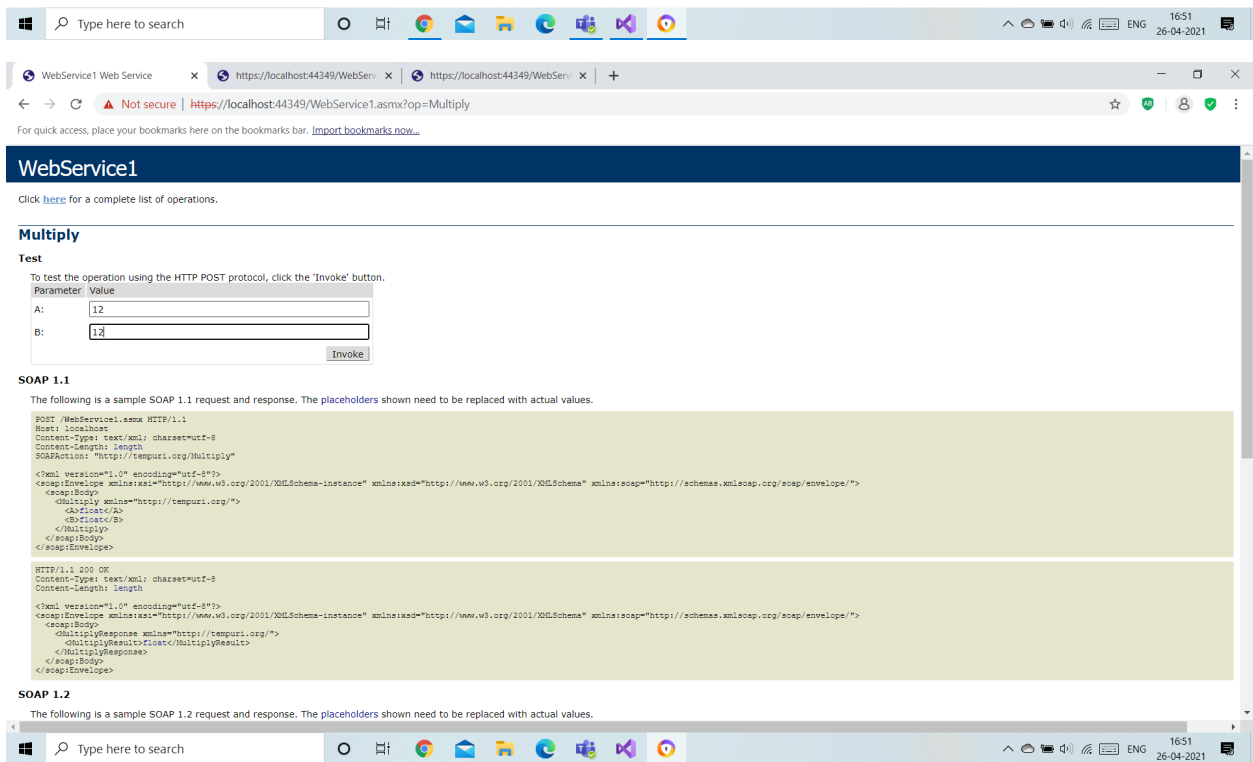
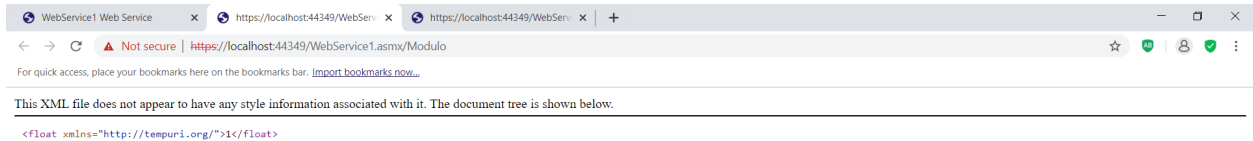
<?xml version="1.0" encoding="utf-8">
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DivideResponse xmlns="http://tempuri.org/">
      <DivideResult/>float</DivideResult>
    </DivideResponse>
  </soap:Body>
</soap:Envelope>
```

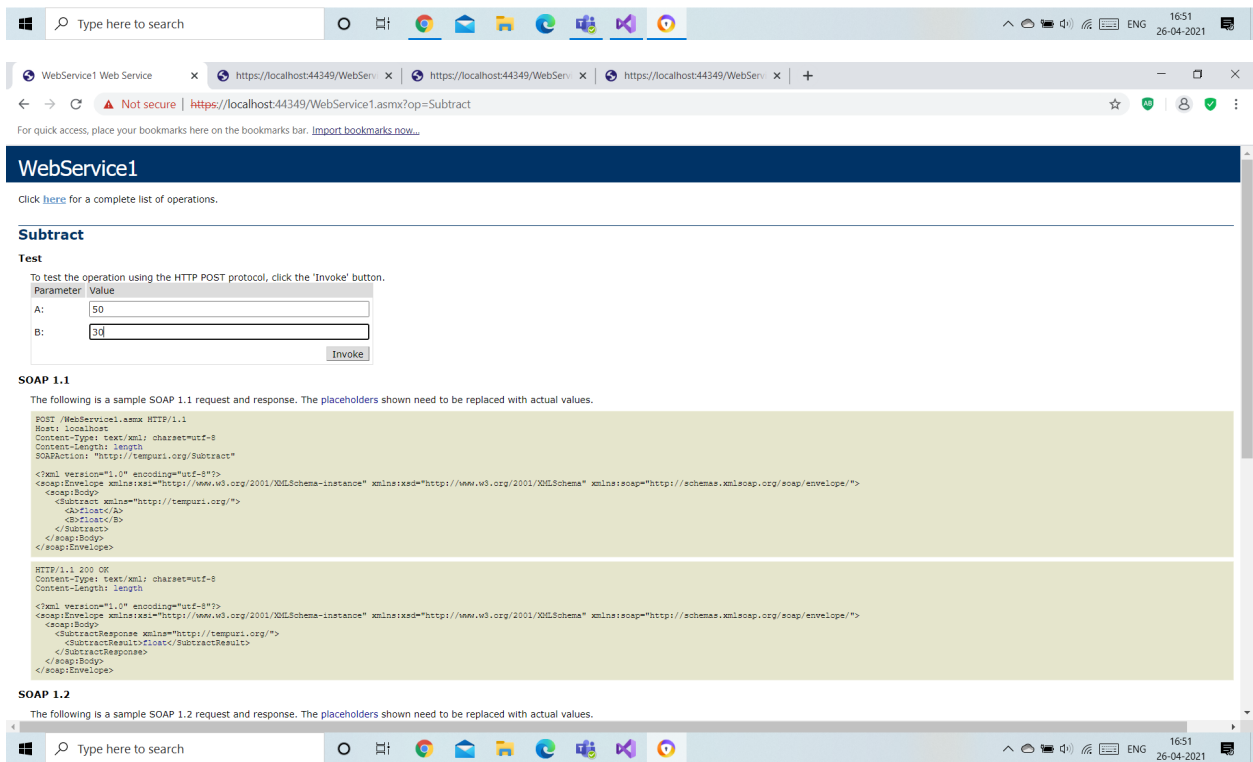
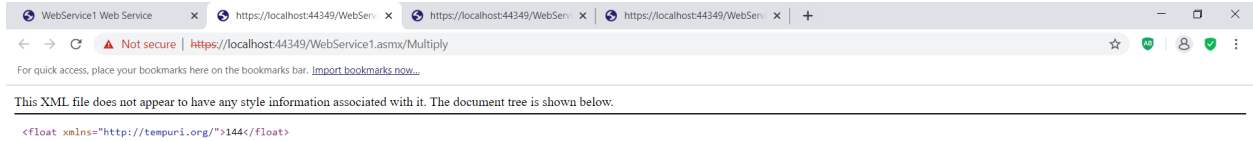
SOAP 1.2

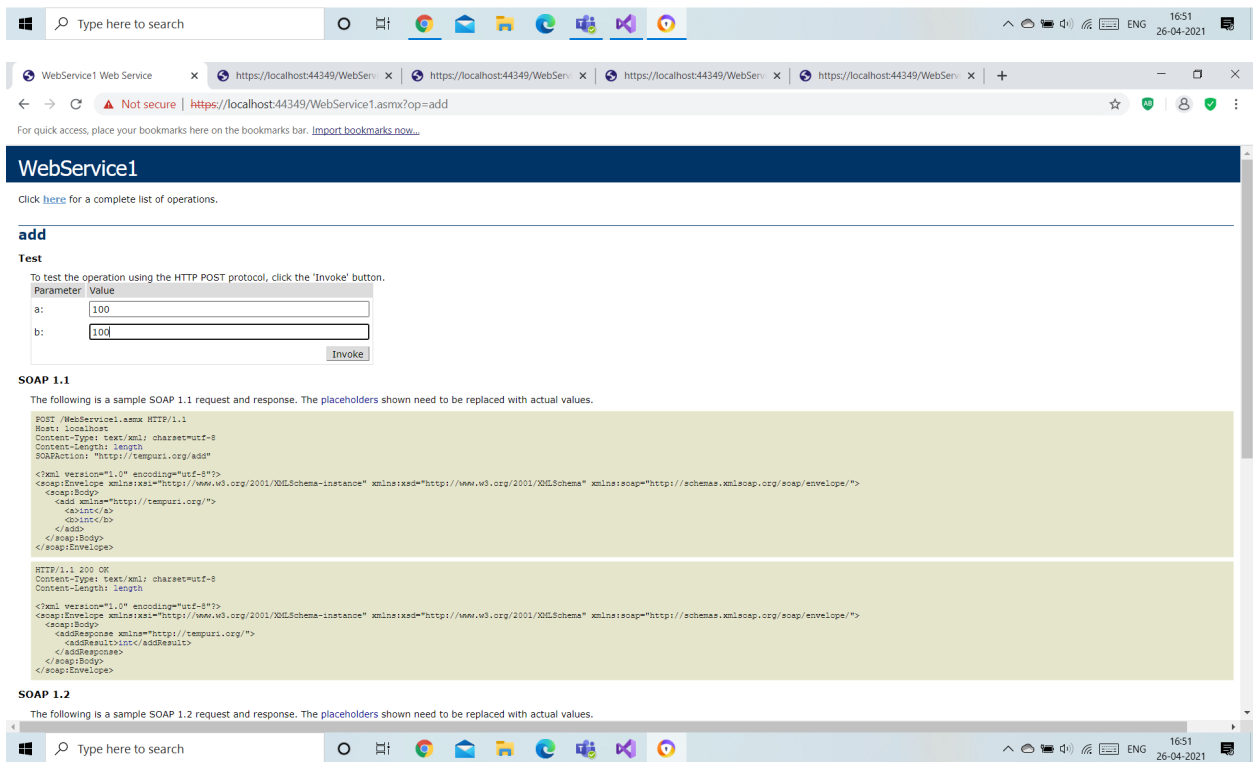
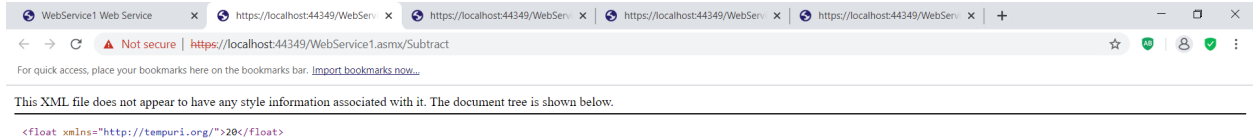
The following is a sample SOAP 1.2 request and response. The placeholders shown need to be replaced with actual values.

Windows Taskbar: Type here to search, icons for Chrome, Mail, File Explorer, Edge, Task View, and other apps. System tray shows network, volume, and date/time (16:50, 26-04-2021).









WebService1 Web Service

https://localhost:44349/Wei

https://localhost:44349/Wei

https://localhost:44349/Wei

https://localhost:44349/Wei

https://localhost:44349/Wei

https://localhost:44349/Wei

+

-

□

×

←

→

↻

⚠ Not secure

https://localhost:44349/WebService1.asmx/add

☆

🛡

👤

🛡

⋮

For quick access, place your bookmarks here on the bookmarks bar: [Import bookmarks now...](#)

This XML file does not appear to have any style information associated with it. The document tree is shown below.

<int xmlns="http://tempuri.org/">200</int>

🪟

🔍 Type here to search

○

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🌐

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📶

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ENG

16:52

26-04-2021

🗨