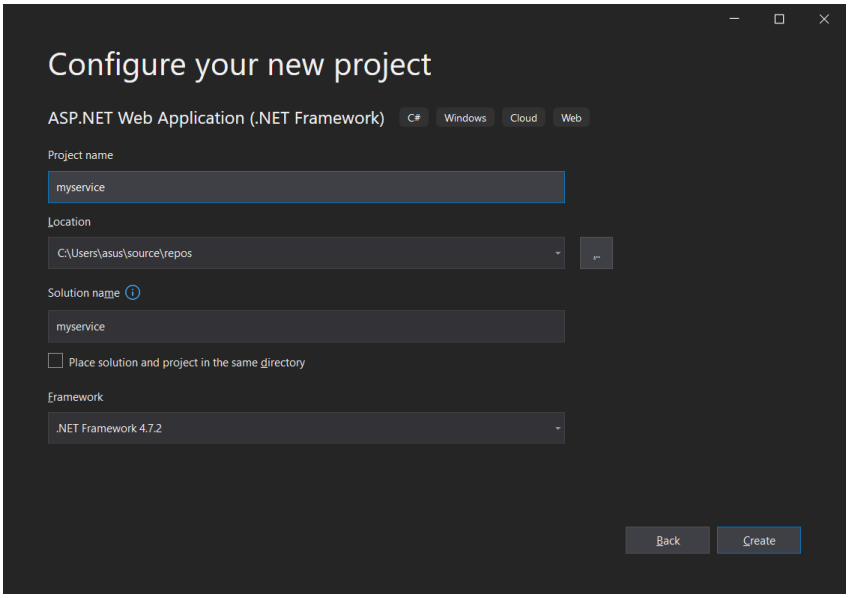
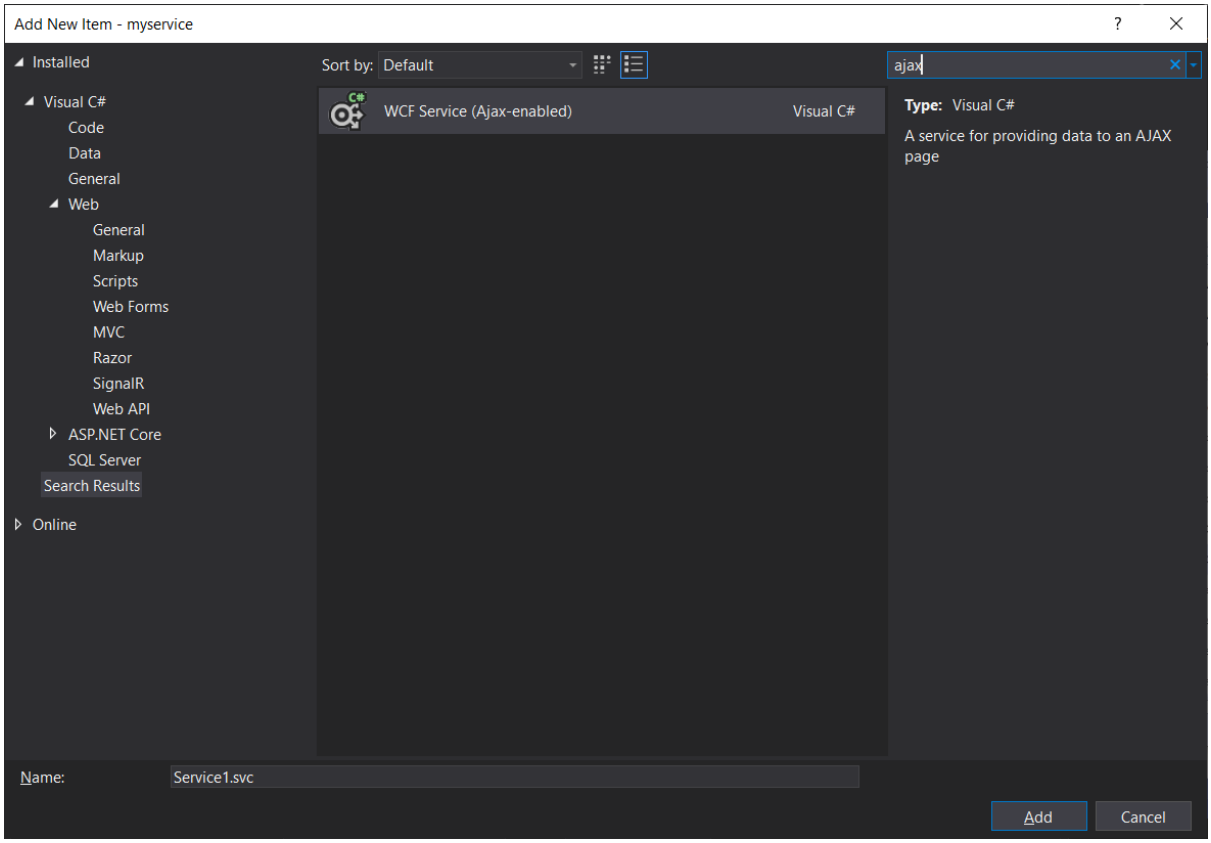
PRACTICAL 9

Aim:Use wcf to Create a basic ASP.NET asynchronous JavaScript and XML (AJAX) service.

1.Create a asp.net web application ,name it as myservice.



2.Add a WCF Service (Ajax Enabled)



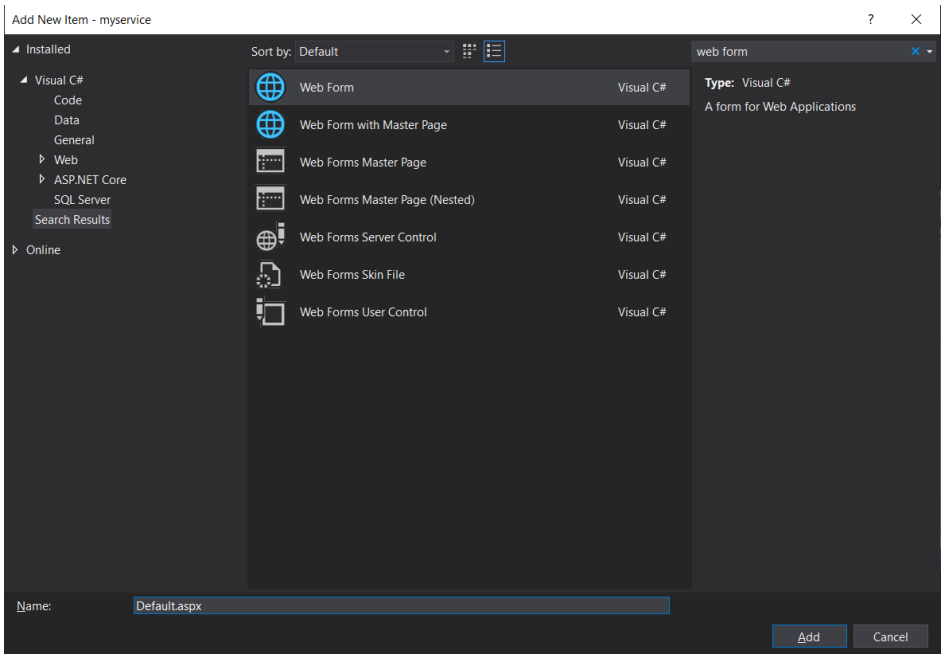
3) add the code into WCF added file.
Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.ServiceModel.Activation;
using System.ServiceModel.Web;
using System.Text;

namespace myajaxservice
{
   [ServiceContract(Namespace = "")]
   [AspNetCompatibilityRequirements(RequirementsMode = AspNetCompatibilityRequirementsMode.Allowed)]
   public class Service1
   {
      // To use HTTP GET, add [WebGet] attribute. (Default ResponseFormat is WebMessageFormat.Json)
      // To create an operation that returns XML,
      //    add [WebGet(ResponseFormat=WebMessageFormat.Xml)],
      //    and include the following line in the operation body:
      //       WebOperationContext.Current.OutgoingResponse.ContentType = "text/xml";
      [OperationContract]
      public double sum(double a, double b)
      {
         double result = a + b;
         return result;
      }

      // Add more operations here and mark them with [OperationContract]
   }
}
```

4.Add a webform keep the name default.



5) Add the jquery code in default.aspx.

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="myservice.Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
   <script type="text/javascript" src="jquery-1.2.js"></script>
 <script type="text/javascript" >
 $(document).ready(function () {
 $("#btn").click(function () {
 var num1 = $("#txt1").val(); var num2 = $("#txt2").val();
 $.ajax({
 url: "MyAJAXService.svc/Sum", type: "POST",
 contentType: "application/json; charset=utf-8", data: JSON.stringify({ a: num1,
b: num2 }),
 dataType: "json", success: function (data) {
 $("#txt3").val(data.d);
 }, error: function (err) {
 alert(err);
 }
 });
 });
 });
 </script>

</head>
<body>
   <form id="form1" runat="server">
      <div style="margin-left: 40px">
       <asp:Label ID="Label1" runat="server" Text="Num1"></asp:Label>
 
         <asp:TextBox ID="txt1" runat="server"></asp:TextBox>
         <br />
         <br />
         <asp:Label ID="Label2" runat="server" Text="Num2"></asp:Label>
 
         <asp:TextBox ID="txt2" runat="server" OnTextChanged="TextBox2_TextChanged"></asp:TextBox>
         <br />
         <br />
           
         <asp:Button ID="txt3" runat="server" OnClick="Button1_Click" Text="Calculate" />
         <br />
         <br />
                 
         <asp:Label ID="Label3" runat="server"></asp:Label>
      </div>
   </form>
</body>
</html>
```

6) Run the project.

Output: