

WCF Assignment Guide

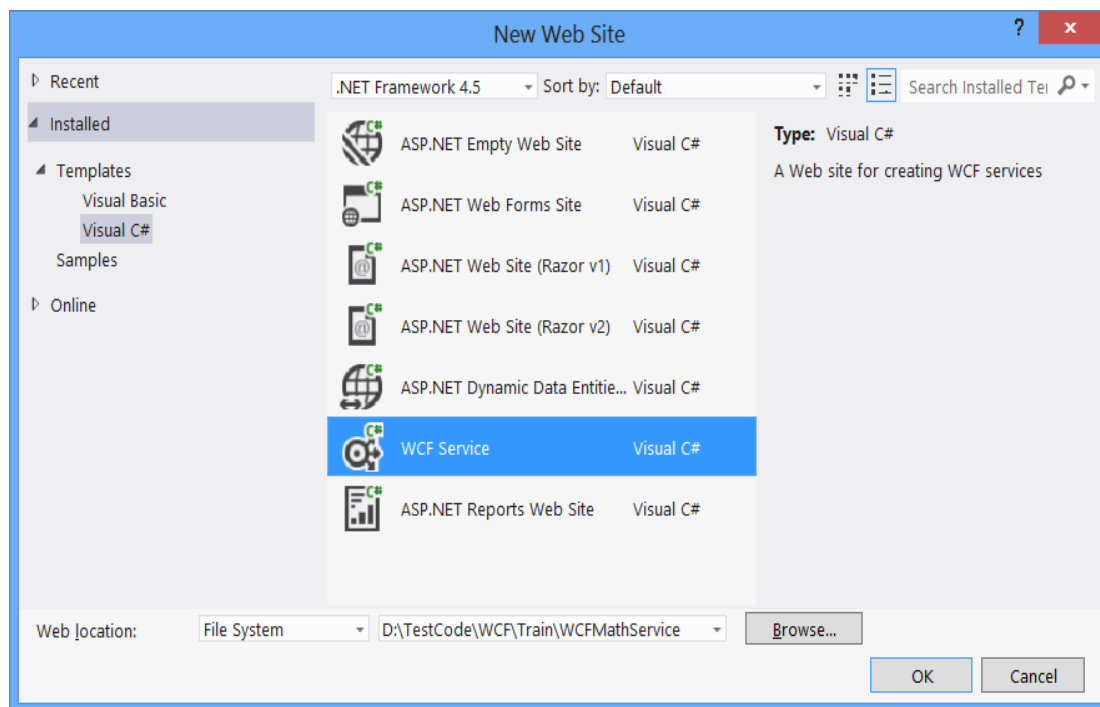
❖ **Introduction** : Developing a Client-Server application with WCF

❖ **Requirement** :

- Visual Studio .Net 2012 (.Net Framework 4.5)

➤ **Step 1 : Create WCFService Application**

- From menu File|New WebSite, In Project Type | Visual C# & Templates | WCF Service and named *WCFMathService* as the below figure:



- Write code in App_Code/*IService.cs* file as the following “:

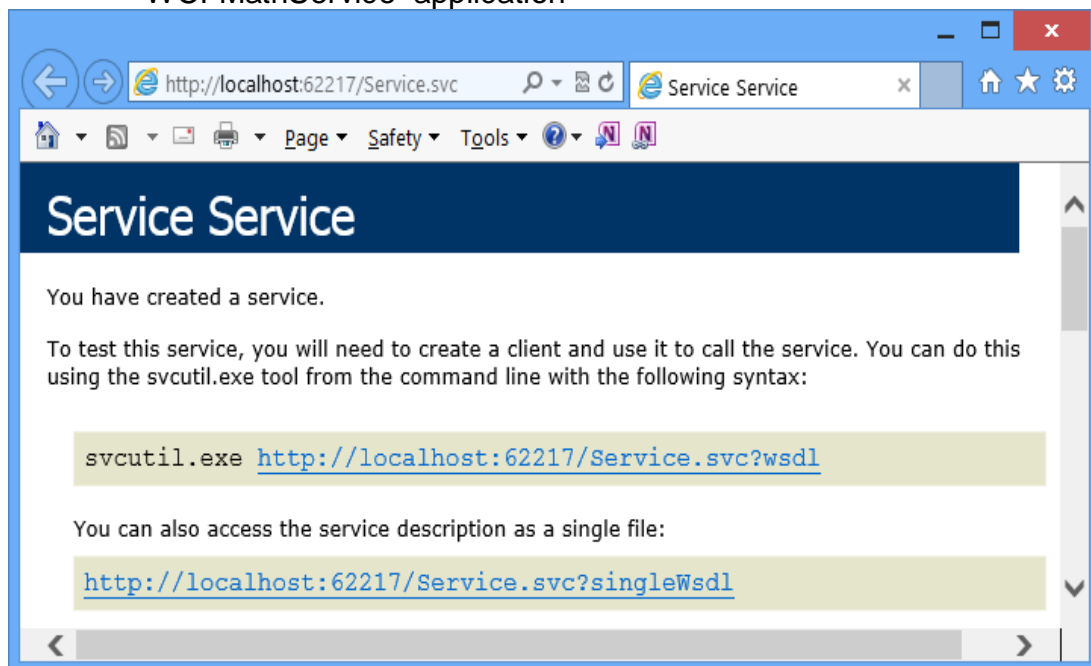
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.ServiceModel.Web;
using System.Text;

[ServiceContract]
public interface IService
{
    [OperationContract]
    int Add(int a, int b);
}
```

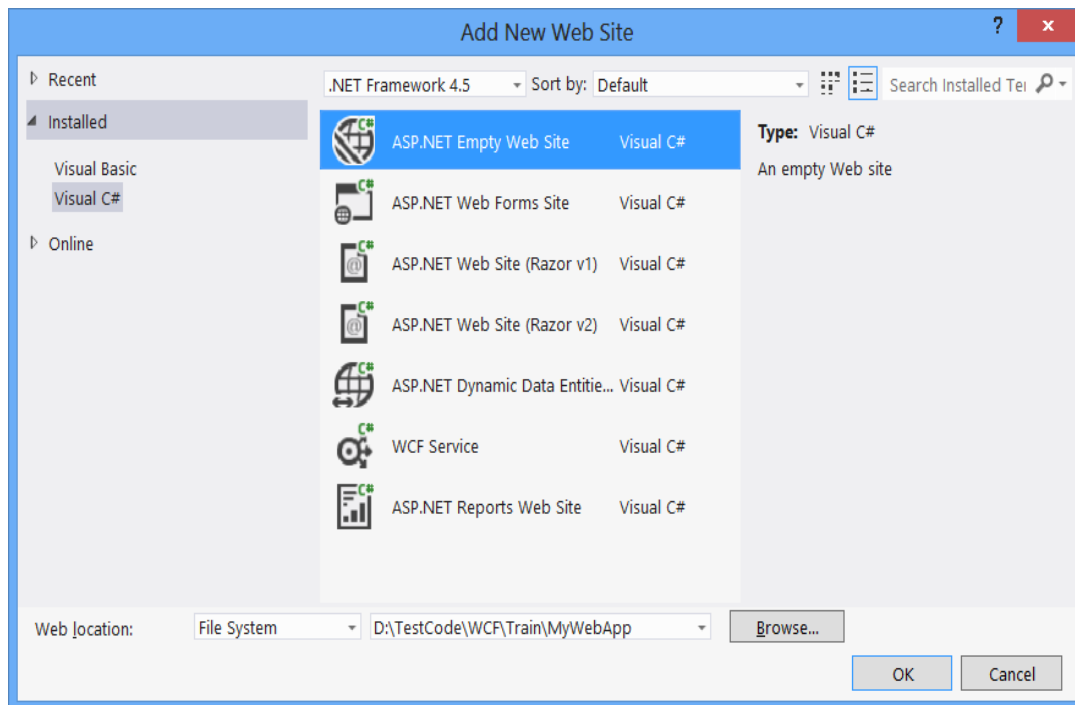
- Write code in App_Code/**Service.cs** file as the following :

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.ServiceModel.Web;
using System.Text;
public class Service : IService
{
    public int Add(int a, int b)
    {
        return a + b;
    }
}
```

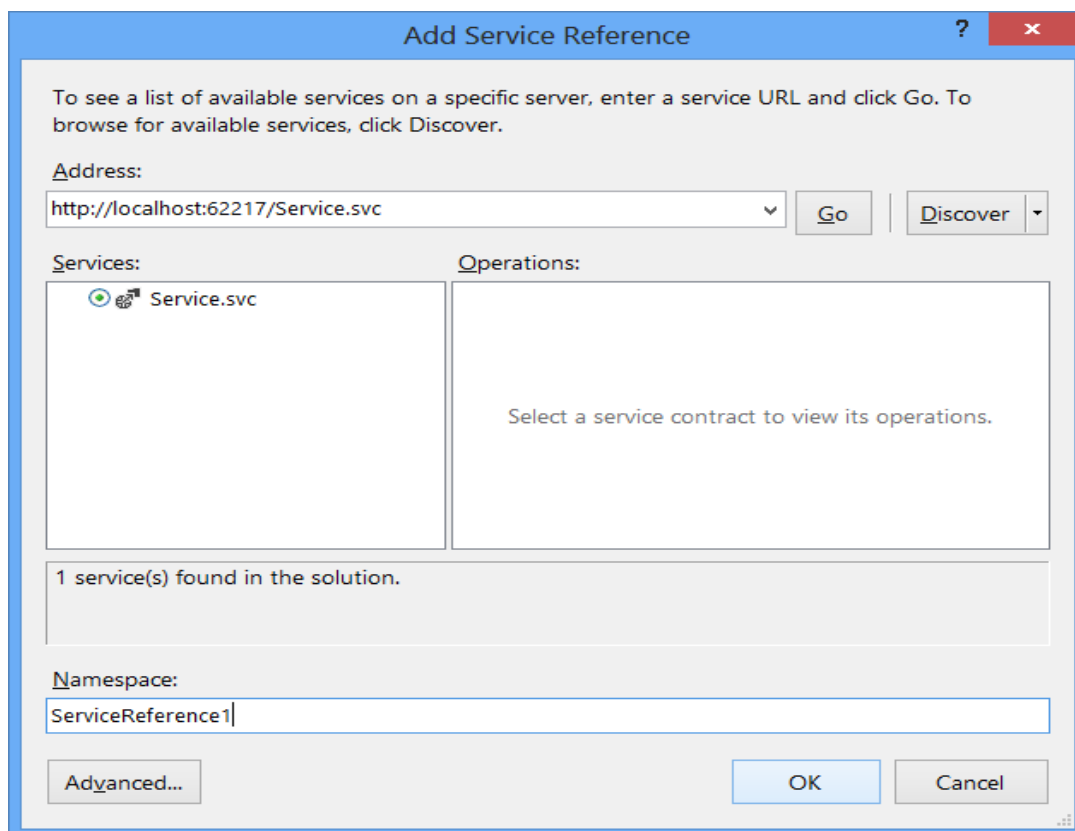
- Right-Click on Service.svc file , select *View In Browser* to run WCFMathService application



- **Step 2 : Create Client Application and Reference to WCFMathService**
 - From menu File|Add New WebSite, In Project Type | Visual C# Templates| **ASP.NET Empty Web Site** , named **MyWebApp** , and add new a ASP.NET named Test.aspx



- Right – click on project ,select **Add Service Reference**, dialog showed, click **Discover** button or enter address as the above figure : <http://localhost:62217/Service.svc> , click **Go** to find services and click **OK** button to finish.



- Double –click on the Test.aspx page and write code in Page_Load method of the Test.aspx.cs file as the following :

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

using ServiceReference1;
public partial class Test: System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        ServiceClient obj = new ServiceClient();
        Response.Write("result = "+obj.Add(1,2).ToString());
    }
}
```

➤ **Step 3 : Run MyWebApp application**

- On the **MyWebApp** project , select Test.aspx , right-click | View in Browser , result as the below figure .

