

Practical no 4

AIM: Use WCF to create a basic ASP.NET Asynchronous JavaScript and XML (AJAX) service..

Program Code:-**WebForm1.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="WebAp-
plication2.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <script src="jquery.js"></script>
    <script type="text/javascript">
        $(document).ready(function () {
            $("#btn").click(function () {
                var num1 = $("#txt1").val();
                var num2 = $("#txt2").val();
                $.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){ $("#txt3").val(data.d); },
                    error : function(err){
                        alert(err);
                    }
                });
            });
        });
    </script>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <input id="txt1" type="text" />
            <br />
            <br />
            <input id="txt2" type="text" />
            <br />
            <br />
            <input id="btn" type="button" value="Add Number" />
            <br />
            <br />
            <input id="txt3" type="text" />
            <p> Performed by krunal 713</p>
        </div>
    </form>
</body>
</html>
```

Service1.svc.cs

```
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 WebApplication2
{
    [ServiceContract(Namespace = "Multiplication")]
    [AspNetCompatibilityRequirements(RequirementsMode = AspNetCompatibilityRequirementsMode.Allowed)]
    public class Service1
    {
        [OperationContract]
        public double Sum(double a, double b)
        {
            double result = a + b;
            return result;
        }
    }
}
```

Web.Config

```
<?xml version="1.0" encoding="utf-8"?>

<!--
  For more information on how to configure your ASP.NET application, please visit
  https://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
  <system.web>
    <compilation debug="true" targetFramework="4.7.1"/>
    <httpRuntime targetFramework="4.7.1"/>
  </system.web>
  <system.codedom>
    <compilers>
      <compiler language="c#;cs;csharp" extension=".cs"
        type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35"
        warningLevel="4" compilerOptions="/langversion:default /nowarn:1659;1699;1701"/>
      <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
        type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35"
        warningLevel="4" compilerOptions="/langversion:default /nowarn:41008 /define:_MYTYPE=&quot;Web&quot; /optionInfer+"/>
    </compilers>
  </system.codedom>
</configuration>
```

```
<system.serviceModel>
  <behaviors>
    <endpointBehaviors>
      <behavior name="WebApplication2.Service1AspNetAjaxBehavior">
        <enableWebScript />
      </behavior>
    </endpointBehaviors>
  </behaviors>
  <serviceHostingEnvironment aspNetCompatibilityEnabled="true"
    multipleSiteBindingsEnabled="true" />
  <services>
    <service name="WebApplication2.Service1">
      <endpoint address="" behaviorConfiguration="WebApplication2.Service1AspNetAjaxBehav-
ion"
        binding="webHttpBinding" contract="WebApplication2.Service1" />
    </service>
  </services>
</system.serviceModel>
</configuration>
```

Output:-

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