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Date: 07/10/2020

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-</pre>
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">
            <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" />
             Performed by krunal 713
        </div>
    </form>
</body>
</html>
```

Web Services T.Y.B.S.c.C.S.Sem-V

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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 = AspNetCompatibilityRequire-
mentsMode.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"</pre>
        type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider, Mi-
crosoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.0.0, Culture=neutral, PublicK-
evToken=31bf3856ad364e35"
        warningLevel="4" compilerOptions="/langversion:default /nowarn:1659;1699;1701"/>
      <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"</pre>
        type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider, Mi-
crosoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.0.0, Culture=neutral, PublicK-
eyToken=31bf3856ad364e35"
        warningLevel="4" compilerOptions="/langversion:default /nowarn:41008 /de-
fine:_MYTYPE=\"Web\" /optionInfer+"/>
    </compilers>
  </system.codedom>
```

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

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