Date: 14/10/2020

Practical no 6

AIM: Develop client which consumes web services developed in different platform.

Program Code:-

WebService1.asmx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
namespace WebApplication4
{
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    public class WebService1 : System.Web.Services.WebService
    {
        [WebMethod]
        public double Mod(double number1 , double number2)
        {
            return (number1 % number2);
        }
    }
}
```

index.html

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Mod </title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form>
      <input type="text" name="txt1" placeholder="Enter First Number"><br><br>
      <input type="text" name="txt2" placeholder="Enter Second Number"><br><br>
      <input type="submit" formaction="Mod.jsp" value="Mod Number"><br><br>
       performed by krunal dhavle 713;
    </form>
  </body>
</html>
```

Mod.jsp

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
```

```
<%-- start web service invocation --%><hr/>
<%
    double num1 = Double.parseDouble(request.getParameter("txt1"));
    double num2 = Double.parseDouble(request.getParameter("txt2"));
try {
        com.dd.WebService1 service = new com.dd.WebService1();
        com.dd.WebService1Soap port = service.getWebService1Soap();
         // TODO initialize WS operation arguments here
        double number1 = num1;
        double number2 = num2;
        // TODO process result here
        double result = port.mod(number1, number2);
        out.println("Result = "+result);
} catch (Exception ex) {
}
%>
</body>
</html>
```

Output:-

WebService1

The following operations are supported. For a formal definition, please review the **Service Description**.

- **Mod**

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 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 namespa 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 attribut 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**.

For more details on URIs, see **RFC 2396**.

WebService1

Click **here** for a complete list of operations.

Mod

Test

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

Parameter	Value
number1:	12
number2:	8

[Invoke]

SOAP 1.1

713

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Mod Number

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JSP Page

Result = 1.0