using System;

using System.Web;

using System.Web.Services;

using System.Xml;

using System.Web.Services.Protocols;

using System.Web.Script.Services;

namespace System.Web.Script.Services.CS

{

[WebService(Namespace = "http://tempuri.org/")]

[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1\_1)]

[ScriptService]

public class WebService : System.Web.Services.WebService

{

private string \_xmlString =

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

<message>

<content>

Welcome to the asynchronous communication layer world!

</content>

</message>";

// This method returns an XmlDocument type.

[WebMethod]

[ScriptMethod(ResponseFormat = ResponseFormat.Xml)]

public XmlDocument GetXmlDocument()

{

XmlDocument xmlDoc = new XmlDocument();

xmlDoc.LoadXml(\_xmlString);

return xmlDoc;

}

// This method uses GET instead of POST.

// its input parameters are sent by the client in the URL query string.

[WebMethod]

[ScriptMethod(UseHttpGet = true)]

public string EchoStringAndDate(DateTime dt, string s)

{

return s + ":" + dt.ToString();

}

[WebMethod]

public string Add(int a, int b)

{

int addition = a + b;

string result =

String.Format("The addition result is {0}.",

addition.ToString());

return result;

}

[WebMethod]

[ScriptMethod(ResponseFormat = ResponseFormat.Xml, XmlSerializeString = true)]

public string GetString()

{

return "Hello World";

}

}

}