

```
Option Strict On
Public Class Demo
```

```
'-----
' Developed by Frank Shoemaker, MindCrafted Systems, Inc.
' www.mindcrafted.com
' Not copyrighted.
'-----

' See: http://visualbasic.about.com/od/usingvbnet/a/WSDebug.htm
' for instructions on setting up debugging.
```

```
Private Sub cmdGO_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles cmdGO.Click
```

```
    Me.Cursor = Cursors.WaitCursor
```

```
    If Me.rbHelloWorld.Checked Then
        Call Me.HelloWorld()
```

```
    ElseIf Me.rbSum.Checked Then
        Call Me.Sum()
```

```
    ElseIf Me.rbTemp.Checked Then
        Call Me.GetTheTemp()
```

```
    ElseIf Me.rbThrowError.Checked Then
        Call Me.ThrowError()
```

```
    ElseIf Me.rbItemList.Checked Then
        Call Me.GetItemList()
```

```
    ElseIf Me.rbGetItemInfo.Checked Then
        Call Me.GetItemInfo()
```

```
    ElseIf Me.rbAsyncCall.Checked Then
        Call Me.AsyncCall()
```

```
    End If
```

```
    Me.Cursor = Cursors.Default
```

```
End Sub
```

```
Private Sub HelloWorld()
```

```
    Dim objHW As New DemoWS.Demo
```

```
    Me.txtResult.Text = String.Empty
```

```
    Me.txtResult.Text = objHW.HelloWorld()
```

```
End Sub
```

```
Private Sub Sum()
```

```
    Dim objHW As New DemoWS.Demo
```

```
    Me.txtResult.Text = String.Empty
```

```
    Me.txtResult.Text = objHW.Sum(Me.numOne.Value, Me.numTwo.Value).ToString
```

```
End Sub
```

```
Private Sub GetTheTemp()
```

```
    Dim oTemp As New WeatherWS.WeatherStats
```

```
Me.txtResult.Text = String.Empty

Me.txtResult.Text = "It's " & oTemp.JustTheTemp().ToString & " degrees."

End Sub

Private Sub ThrowError()

    Dim objHW As New DemoWS.Demo

    Me.txtResult.Text = String.Empty

    Try

        Me.txtResult.Text = objHW.RollTheDice()

    Catch ex As Exception

        Me.txtResult.Text = ex.Message

    End Try

End Sub

Private Sub GetItemList()

    Dim WS As New ItemWS.ItemWS
    Dim DataSet As DataSet
    Me.txtResult.Text = String.Empty

    Try

        DataSet = WS.ItemSelectList

        Me.cboItemList.DataSource = DataSet.Tables("Select")
        Me.cboItemList.DisplayMember = "Name"
        Me.cboItemList.ValueMember = "ID"

        Me.txtResult.Text = DataSet.Tables("Select").Rows.Count.ToString & " Items returned"

    Catch ex As Exception

        Me.txtResult.Text = ex.Message

    End Try

End Sub

Private Sub GetItemInfo()

    Dim WS As New ItemWS.ItemWS
    Dim Item As WS_Driver.ItemWS.ItemData
    Me.txtResult.Text = String.Empty

    Try

        Item = WS.GetItem(CType(Me.cboItemList.SelectedValue, Integer))

        Me.txtResult.Text = "Name: " & Item.Name & Environment.NewLine
        Me.txtResult.Text &= "Units in Stock: " & Item.UnitsInStock.ToString & Environment.NewLine
        Me.txtResult.Text &= "Reorder Level: " & Item.ReorderLevel.ToString & Environment.NewLine
        Me.txtResult.Text &= "ItemID: " & Item.ItemID.ToString

    Catch ex As Exception
```

```
        Me.txtResult.Text = ex.Message
    End Try
End Sub

#Region " Async Call "

Private mAsyncCounter As Integer = 0
Dim mTemp As WeatherWS.WeatherStats

Private Sub AsyncCall()

    Me.txtResult.Text = String.Empty

    mTemp = New WeatherWS.WeatherStats

    AddHandler mTemp.JustTheTempCompleted, AddressOf AsyncCallBack

    Me.timAsync.Enabled = True

    Call mTemp.JustTheTempAsync()

End Sub

Public Sub AsyncCallBack(ByVal sender As Object, ByVal e As WeatherWS.
JustTheTempCompletedEventArgs)

    Me.timAsync.Enabled = False

    Me.txtResult.Text &= Environment.NewLine & "Async completed." & Environment.
NewLine

    Me.txtResult.Text &= "It's " & mTemp.JustTheTemp().ToString & " degrees." &
Environment.NewLine

End Sub

Private Sub timAsync_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles timAsync.Tick

    mAsyncCounter += 1
    Me.txtResult.Text = "Waited for " & mAsyncCounter.ToString & " Milliseconds"
    Me.Update()

End Sub

#End Region

End Class
```

```
Option Strict On
Imports System.Web
Imports System.Web.Services
Imports System.Web.Services.Protocols

'-----
' Developed by Frank Shoemaker, MindCrafted Systems, Inc.
' www.mindcrafted.com
' Not copyrighted.
'-----

<WebService(Namespace:="http://tempuri.org/")> _
<WebServiceBinding(ConformsTo:=WsiProfiles.BasicProfile1_1)> _
<Global.Microsoft.VisualBasic.CompilerServices.DesignerGenerated()> _
Public Class Demo
    Inherits System.Web.Services.WebService

    <WebMethod()> _
    Public Function HelloWorld() As String

        Return "Hello, World"

    End Function

    <WebMethod()> _
    Public Function Sum(ByVal Num1 As Decimal, ByVal Num2 As Decimal) As Decimal

        Return Num1 + Num2

    End Function

    <WebMethod()> _
    Public Function RollTheDice() As String

        Dim R As New System.Random
        Dim num As Integer = R.Next(0, 2)

        If num = 0 Then
            Return "You must be feeling lucky."
        Else
            Throw New Exception("You weren't so lucky!")
        End If

    End Function
End Class
```

```
Option Strict On
Imports System.Web
Imports System.Web.Services
Imports System.Web.Services.Protocols

'-----
' Developed by Frank Shoemaker, MindCrafted Systems, Inc.
' www.mindcrafted.com
' Not copyrighted.
'-----

<WebService(Namespace:="http://tempuri.org/")> _
<WebServiceBinding(ConformsTo:=WsiProfiles.BasicProfile1_1)> _
<Global.Microsoft.VisualBasic.CompilerServices.DesignerGenerated()> _
Public Class Demo
    Inherits System.Web.Services.WebService

    <WebMethod()> _
    Public Function HelloWorld() As String

        Return "Hello, World"

    End Function

    <WebMethod()> _
    Public Function Sum(ByVal Num1 As Decimal, ByVal Num2 As Decimal) As Decimal

        Return Num1 + Num2

    End Function

    <WebMethod()> _
    Public Function RollTheDice() As String

        Dim R As New System.Random
        Dim num As Integer = R.Next(0, 2)

        If num = 0 Then
            Return "You must be feeling lucky."
        Else
            Throw New Exception("You weren't so lucky!")
        End If

    End Function
End Class
```