

```
<%--Default.aspx--%>
```

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb"  
Inherits="Lab_6_Default" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title>Lab 6</title>  
</head>  
<body>  
    <form id="form1" runat="server">  
        <div>  
            <h1>Lab 6</h1>  
            <a href="ViewState.aspx">Problem 1 & 2: </a>  
            <br />  
            <a href="Customer.aspx">Problem 3: </a>  
        </div>  
    </form>  
</body>  
</html>
```

```
<%--Customer.aspx--%>
```

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Customer.aspx.vb"  
Inherits="Lab_6_Customer" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title>Customer ViewState</title>  
</head>  
<body>  
    <form id="form1" runat="server">  
        <div style="text-align:center; margin-top:50px;">  
            <asp:Label id="lblOutput" runat="server"></asp:Label>  
            <br /><br />  
            <asp:Button id="btnPostBack" runat="server" Text="Post Back" />  
        </div>  
    </form>  
</body>
```

</html>

```
'Customer.aspx.vb
Partial Class Lab_6_Customer
    Inherits System.Web.UI.Page

    Dim cust_1 As Customer
    Dim cust_2 As New Customer("First_Name_2", "Last_Name_2")
    Dim cust_3 As New Customer("First_Name_3", "Last_Name_3")

    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
        If ViewState("cust_1") IsNot Nothing Then
            cust_1 = CType(ViewState("cust_1"), Customer)
            lblOutput.Text = "Read cust_1: " & cust_1.FirstName & " " &
cust_1.LastName
        Else
            lblOutput.Text = "cust_1 not found in ViewState."
        End If
    End Sub

    Protected Sub Page_PreRender(sender As Object, e As EventArgs) Handles
Me.PreRender
        If ViewState("cust_1") Is Nothing Then
            cust_1 = New Customer("First_Name_1", "Last_Name_1")
            ViewState("cust_1") = cust_1
        End If
    End Sub
End Class
```

```
<Serializable(>
Public Class Customer
    Private _firstName As String
    Public Property FirstName() As String
        Get
            Return _firstName
        End Get
        Set(ByVal Value As String)
            _firstName = Value
        End Set
    End Property

    Private _lastName As String
    Public Property LastName() As String
        Get
            Return _lastName
        End Get
    End Property
End Class
```

```

        Set(ByVal Value As String)
            _lastName = Value
        End Set
    End Property

    Public Sub New(ByVal firstName As String, ByVal lastName As String)
        Me.FirstName = firstName
        Me.LastName = lastName
    End Sub
End Class

```

```
<%--ViewState.aspx--%>
```

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="ViewState.aspx.vb"
Inherits="Lab_6_ViewState" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
    <title></title>
```

```
</head>
```

```
<body>
```

```
    <form id="form1" runat="server">
```

```
        <div>
```

```
            <h3>Problem 1 & 2: </h3>
```

```
            <p>Implement a simple program that uses viewstate to store and retrieve
counter value. Whenever Increment button is clicked counter should be incremented by
2?</p>
```

```
            <p>Extend the program implemented above and make the View State secure?
```

```
Refer to the textbook for the technique of securing?</p>
```

```
            <h3>Demonstration: </h3>
```

```
            <div>
```

```
                <asp:Button OnClick="incrementCounter" Text="Count" runat="server" />
```

```
            </div>
```

```
            <h1 id="counterValue" runat="server"></h1>
```

```
        </div>
```

```
    </form>
```

```
</body>
```

```
</html>
```

```
'ViewState.aspx.vb
Partial Class Lab_6_ViewState
    Inherits System.Web.UI.Page

    Dim count As Integer

    Private Sub _Default_Load(sender As Object, e As EventArgs) Handles Me.Load
        If (Me.ViewState("count") IsNot Nothing) Then
            count = Me.ViewState("count")
        Else
            count = 0
        End If
        counterValue.InnerText = count
    End Sub

    Public Sub incrementCounter(sender As Object, e As EventArgs)
        count += 2
        counterValue.InnerText = count
    End Sub

    Private Sub _Default_PreRender(sender As Object, e As EventArgs) Handles
Me.PreRender
        Me.ViewState.Add("count", count)
        Page.RegisterRequiresViewStateEncryption()

    End Sub
End Class
```