



Pakistan Institute of Engineering and Applied Sciences

Internet Application Development
Lab#6(A)

Submitted To

Dr.Irfan Hameed

Submitted By

Insha Afzal

Question:

Problem 1) Implement a simple program that uses viewstate to store and retrieve counter value. Whenever Increment button is clicked counter should be incremented by 2? Write code behind below?

If this page is accessed using different browser windows, or from more than one clients, whether the counter value would be same, or it would be different at different time instants? Give reason for the observation?

Part 1: Implement a simple program that uses viewstate to store and retrieve counter value. Whenever Increment button is clicked counter should be incremented by 2? Write code behind below?

Coding Section:

.aspx

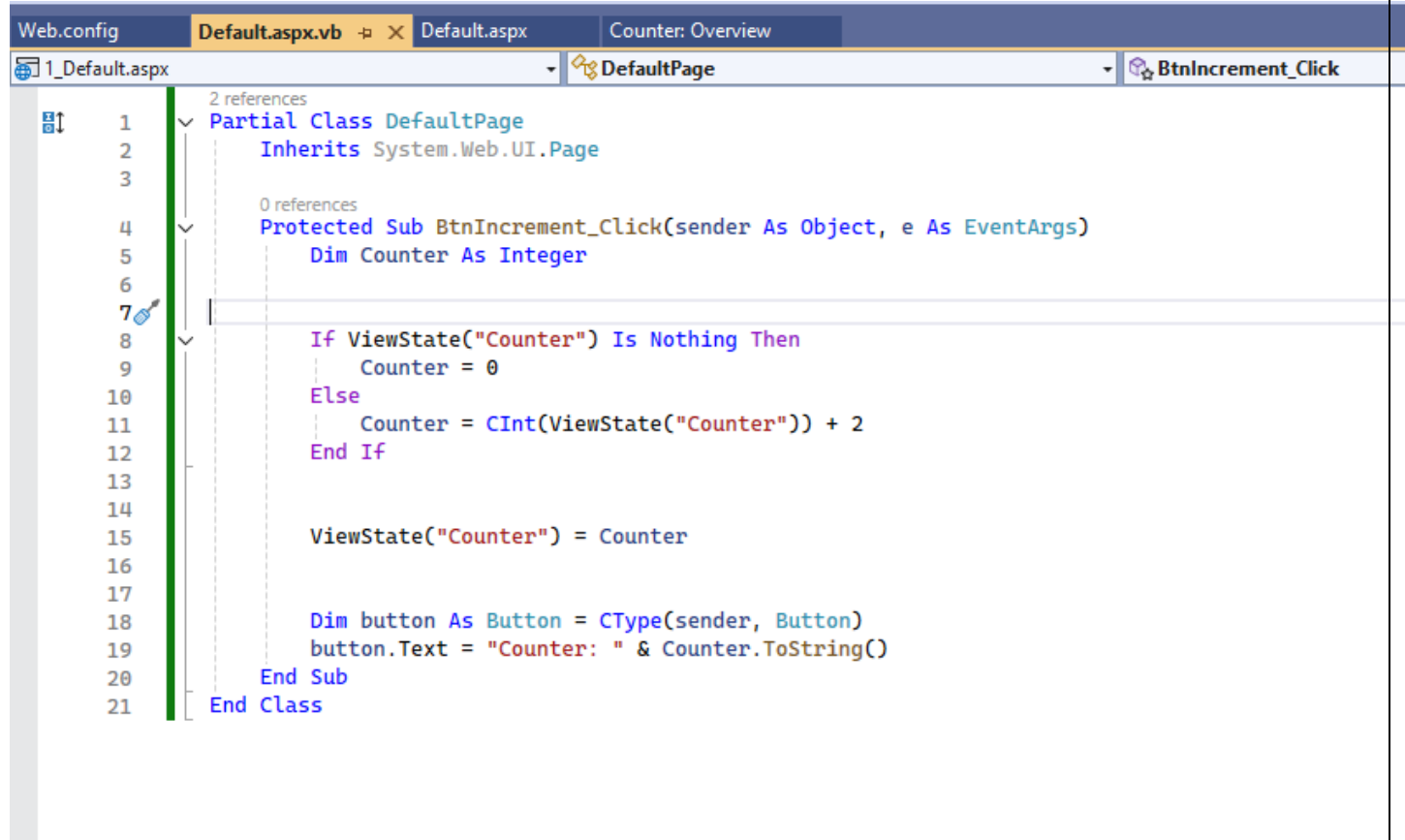


```
Web.config  Default.aspx.vb  Default.aspx  Counter: Overview
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="Default.aspx.vb" Inherits="DefaultPage" %>

<!DOCTYPE html>

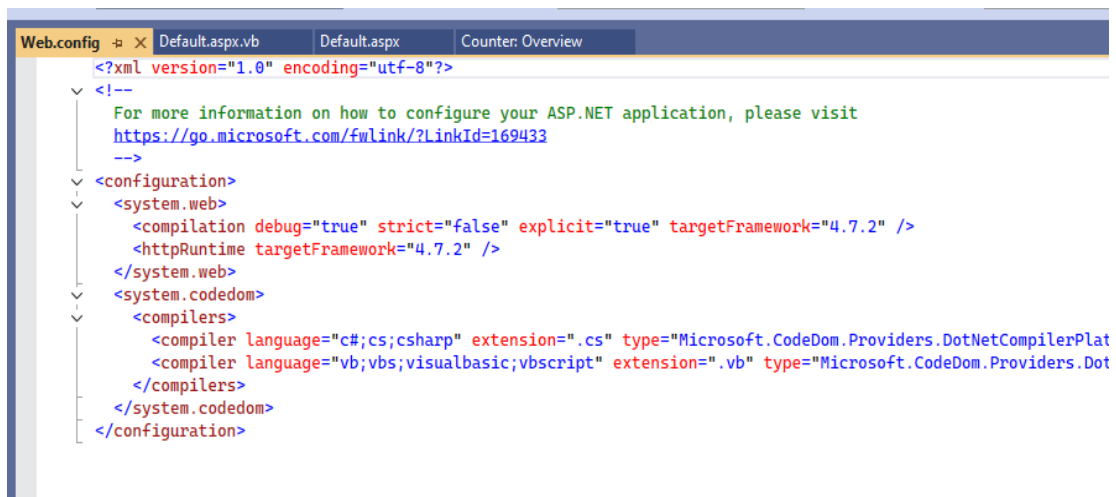
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>ViewState Counter Example</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Button ID="BtnIncrement" runat="server" Text="Counter: 0" OnClick="BtnIncrement_Click" />
        </div>
    </form>
</body>
</html>
```

aspx.vb



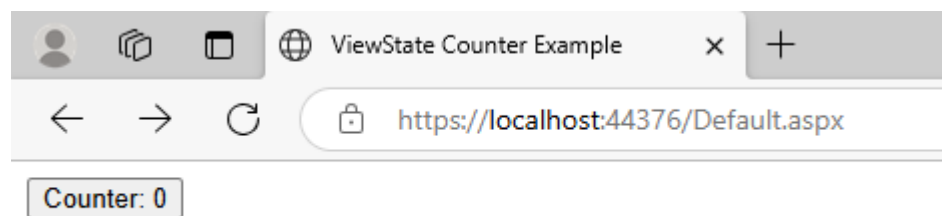
```
1 2 references
2 Partial Class DefaultPage
3     Inherits System.Web.UI.Page
4
5     0 references
6     Protected Sub BtnIncrement_Click(sender As Object, e As EventArgs)
7         Dim Counter As Integer
8
9         If ViewState("Counter") Is Nothing Then
10             Counter = 0
11         Else
12             Counter = CInt(ViewState("Counter")) + 2
13         End If
14
15         ViewState("Counter") = Counter
16
17
18         Dim button As Button = CType(sender, Button)
19         button.Text = "Counter: " & Counter.ToString()
20     End Sub
21 End Class
```

Web.config

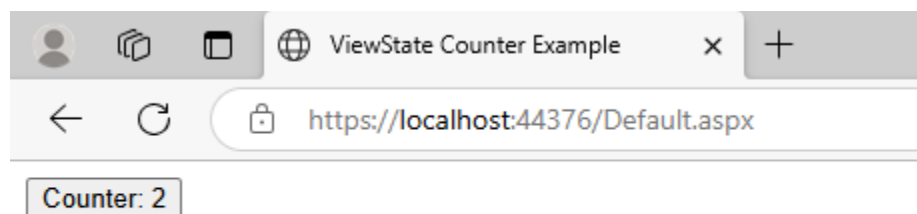
A screenshot of the Visual Studio IDE showing the Web.config file. The file is open in a tab labeled 'Web.config'. The code is XML-based and contains configuration for an ASP.NET application. It includes a comment about configuring the application, a <configuration> root element, and sub-elements for <system.web> (compilation and httpRuntime), <system.codedom>, and <compilers> (c# and vb).

```
<?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" strict="false" explicit="true" targetFramework="4.7.2" />
    <httpRuntime targetFramework="4.7.2" />
  </system.web>
  <system.codedom>
    <compilers>
      <compiler language="c#;cs;csharp" extension=".cs" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform" />
      <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform" />
    </compilers>
  </system.codedom>
</configuration>
```

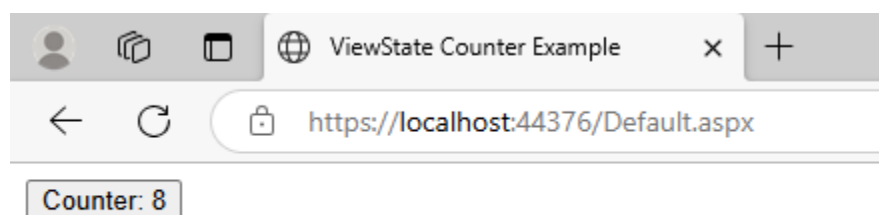
Output:



Click at button to see behavior



Press 4 times



Part 2

Will the counter be the same for different browsers or users?

Answer: No, it will be different.

Reason:

ViewState is stored in the page sent to the **client browser** and returned with the next request. So:

- Each **browser/tab** has its own ViewState.
- Each **user** sees their own counter.
- It's **not shared globally** across users or sessions.