

Referring to: The ASP.NET Page Life Cycle Overview Handout

1. Describe the relationship between the `HttpApplication`, `HttpContext`, `HttpRequest`, and `HttpResponse` Classes.

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2. What is the `IsPostBack` property used for?

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3. List the `@Page` directive attributes and describe each setting.

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4. During which general page life-cycle stage are the page control properties loaded from Viewstate?

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And saved to Viewstate?

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5. Create the following WebForm naming it UserIDBAI506ViewState:

```
<form id="form1" runat="server">
  <asp:DropDownList ID="food" runat="server" />
  <asp:Button ID="Choose" text="Choose" runat="server" />
</form>
```

And the following Codebehind:

```
Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
    Dim values As ArrayList = New ArrayList()

    values.Add("Chips")
    values.Add("Chocolate Bars")
    values.Add("Popcorn")

    food.DataSource = values
    food.DataBind()

End Sub

Protected Sub Choose_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles Choose.Click
    Response.Write("You chose " & food.SelectedItem.Text & "<br />")
End Sub
```

Fix the problem without rewriting the entire program or adding extra functions

6. Run the program you created in step 5 and from your browser select “View Source” and copy the Viewstate into the clipboard and paste it into the online view state decoder located at:  
<http://lachlankeown.blogspot.com/2008/05/online-viewstate-viewer-decoder.html>

Find the DropDownList ListItems and write down the values (including the format).

### BONUS

Modify the WebForm created in Step 5 so that it counts the number of times that the button was clicked using a variable stored in the ViewState and not a control.

Here’s how to store something in the Viewstate:

```
ViewState("PostBackCounter") = Value
```

Here’s how to read it back in:

```
CInt(ViewState("PostBackCounter"))
```

This example uses “PostBackCounter” as the key name for the data being stored in the ViewState dictionary.

CInt() is used to convert the returned data from a String back into an Integer.

Once you have the program running use the ViewState decoder to see where in the ViewState the counter was stored.

7. Record the .Net Framework versions installed on your computer:

1. Open the Run dialog box by typing Win+R.

2. Type the following command:

```
cmd /k dir %windir%\microsoft.net\framework\v?.* /b
```

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8. Add a WebForm to the project you created in step 5, naming it HostingEnvironment. Use Response.Write to display 5 properties of the HostingEnvironment object.