

Practical 1: Display the number of times current page is visited using View State, Session, Cookies and Application State.

**Code:**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace sessionDemo
{
    public partial class session_demo : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack == true)
            {
                Label1.Text = "0";

                Label2.Text = "0";
                Label3.Text = "0";
                Label4.Text = "0";
            }
        }

        protected void BtnCookies_Click(object sender, EventArgs e)
        {
            int c;
            if (Request.Cookies["c"] == null)
            {
                c = 0;
            }
            else
            {
                c = int.Parse(Request.Cookies["c"].Value);
            }
            c++;
            Label1.Text = c.ToString();
        }

        protected void BtnSession_Click(object sender, EventArgs e)
```

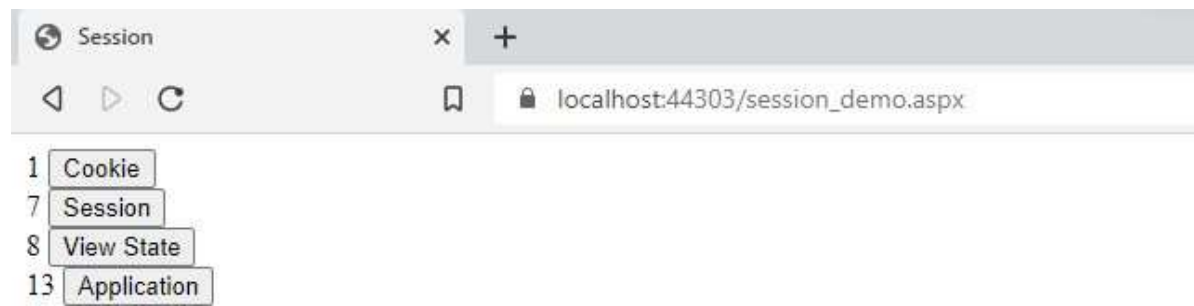
```
{
    if (Session["count"] != null)
    {
        Session["count"] = Convert.ToInt32(Session["count"]) + 1;
    }
    else
    {
        Session["count"] = Convert.ToInt32(Session["count"] = 1);
    }
    Label2.Text = Session["count"].ToString();
}
```

```
protected void BtnViewstate_Click(object sender, EventArgs e)
{
    if (ViewState["num"] != null)
    {
        ViewState["num"] = Convert.ToInt32(ViewState["num"]) + 1;
    }
    else
    {
        ViewState["num"] = Convert.ToInt32(ViewState["num"] = 1);
    }
    Label3.Text = ViewState["num"].ToString();
}
```

```
protected void BtnApplication_Click(object sender, EventArgs e)
{
    if (Application["num"] != null)
    {
        Application["num"] = Convert.ToInt32(Application["num"]) + 1;
    }
    else
    {
        Application["num"] = Convert.ToInt32(Application["num"] = 1);
    }
    Label4.Text = Application["num"].ToString();
}
```

```
}
}
```

## **Output:**



## Practical 2: Design a webpage to read, write and remove cookies.

### Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace cookiesDemo2
{
    public partial class cookies_demo : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Btn_create_Click(object sender, EventArgs e)
        {
            HttpCookie c = new HttpCookie("cn");
            c.Values["cn"] = TextBox1.Text;
            c.Expires = DateTime.Now.AddHours(2);
            Response.Cookies.Add(c);
            Label2.Text = "Cookie " + TextBox1.Text + " created";
        }

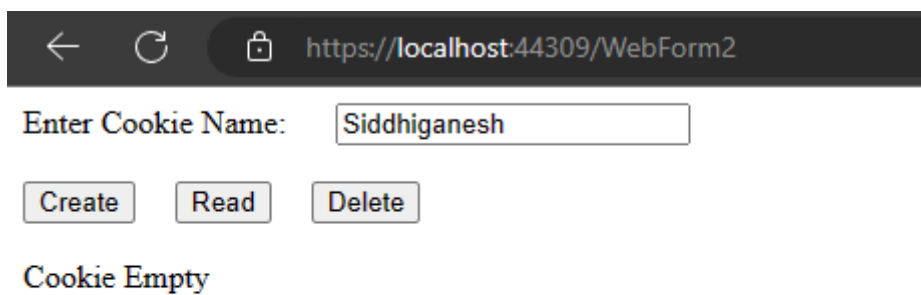
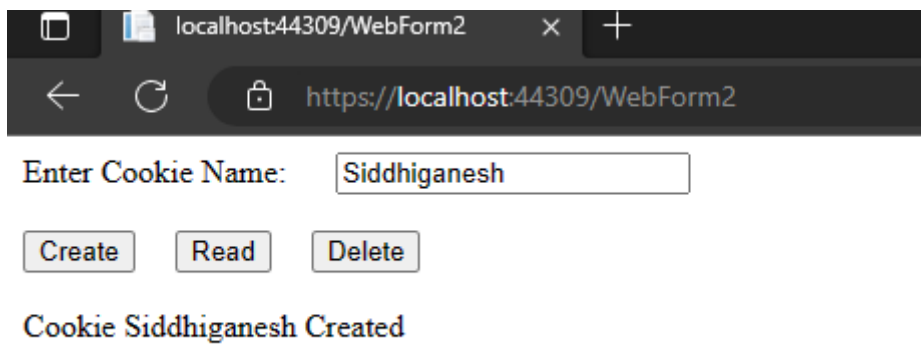
        protected void Btn_read_Click(object sender, EventArgs e)
        {
            if (Request.Cookies["cn"] != null)
            {
                Label2.Text = "Cookie name: " + Request.Cookies["cn"].Value;
            }
            else
            {
                Label2.Text = "Cookie doesn't exist!!";
            }
        }

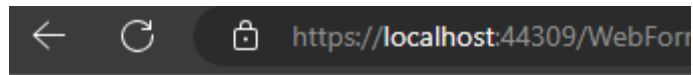
        protected void Btn_delete_Click(object sender, EventArgs e)
```

```
{  
    Response.Cookies["cn"].Expires = DateTime.Now.AddHours(-2);  
  
    Label2.Text = "Cookie deleted!!!!";  
}  
}
```

### **Output:**

#### **a) Create**





Enter Cookie Name:

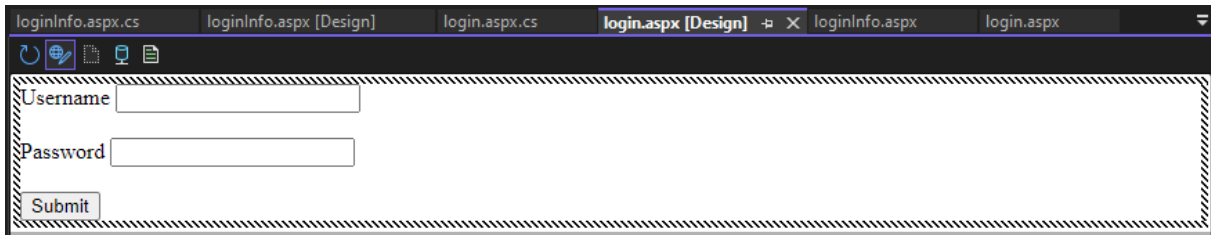
Create

Read

Delete

Cookie Deleted

### Practical 3: Design Web Application using Server Side Session Management Techniques(login)



#### Login.aspx

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="login.aspx.cs"
Inherits="loginPage.login" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:Label ID="uname" runat="server" Text="Username"></asp:Label>
```

```
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
```

```
<br /><br />
```

```
<asp:Label ID="pass" runat="server" Text="Password"></asp:Label>
```

```
<asp:TextBox ID="TextBox2" runat="server" TextMode="Password"></asp:TextBox>
```

```
<br /><br />
```

```
<asp:Button ID="submit_btn" runat="server" Text="Submit" OnClick="submit_btn_Click" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

#### login.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
```

```
namespace loginPage
```

```
{
```

```
    public partial class login : System.Web.UI.Page
```



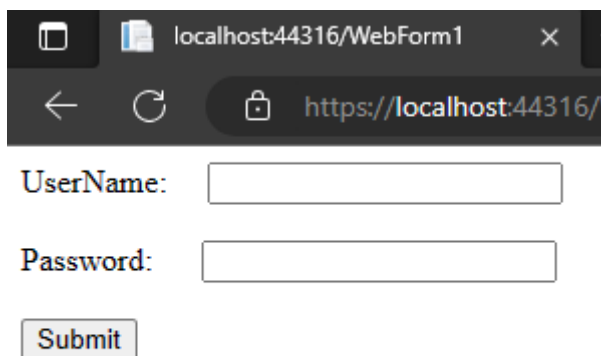


```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

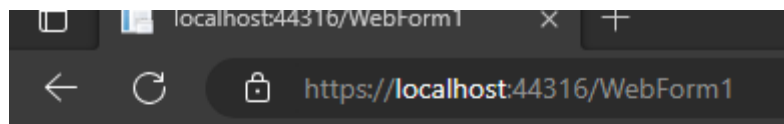
namespace loginPage
{
    public partial class loginInfo : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            Label1.Text = Session["uname"].ToString();
        }

        protected void logout_btn_Click(object sender, EventArgs e)
        {
            Session.RemoveAll();
            Response.Redirect("login.aspx");
        }
    }
}
```

**Output:**

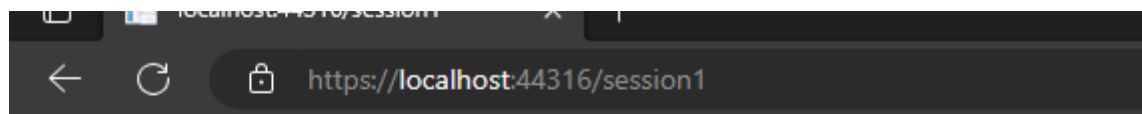


Output2:-



UserName:

Password:



BVIMIT

**Code :**



```
<!DOCTYPE html>
```

&lt;head runat="server"&gt;

&lt;/head&gt;

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

```
<asp:ListBox ID="ListBox1" runat="server"></asp:ListBox>
```

```
<asp:Button ID="btn_submit" runat="server" Text="Submit" OnClick="btn_submit_Click" />
```

&lt;/body&gt;

using System;

using System.Collections.Generic;

```
using System.Linq;
```

using System.Web;

```
using System.Web.UI;
```

```
using System.Web.UI.WebControls;
```

```

namespace listOfBooks
{
    public partial class book : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            ListBox1.Items.Add("ASP.NET");
            ListBox1.Items.Add("Information Security");
            ListBox1.Items.Add("AI & ML");
            ListBox1.Items.Add("Networking Lab");
            ListBox1.Items.Add("UI UX");
        }

        protected void btn_submit_Click(object sender, EventArgs e)
        {
            Session["bookname"] = ListBox1.SelectedItem;
            if (Session["bookname"] == null)
            {
                Response.Write("<script> alert('Book not selected')</script>");
            }
            else
            {
                Server.Transfer("bookInfo.aspx");
            }
        }
    }
}

```



```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="bookInfo.aspx.cs"
Inherits="listOfBooks.bookInfo" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>

```

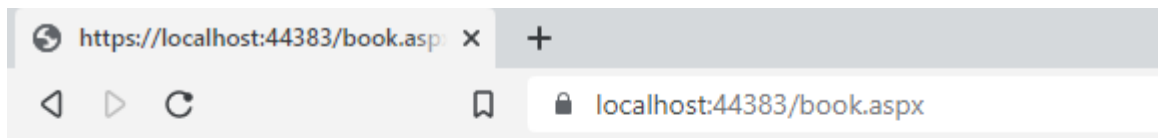
```
<body>
  <form id="form1" runat="server">
    <div>
      <asp:Label ID="Label1" runat="server" Text="List of the books" Font-
Size="Large"></asp:Label>
      <br /><br />
      <asp:Label ID="lblMsg" runat="server" Text="Label"></asp:Label>
    </div>
  </form>
</body>
</html>
```

[bookInfo.aspx.cs](#)

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace listOfBooks
{
    public partial class bookInfo : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            string book = Session["bookname"].ToString();
            lblMsg.Text = book;
        }
    }
}
```

**Output:**



Application to show list of books

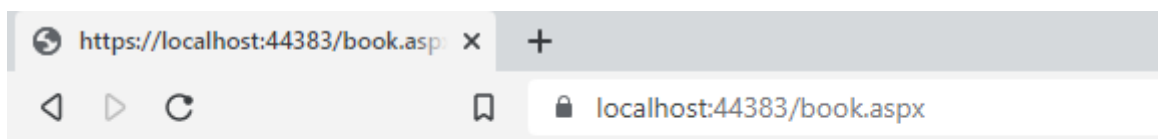
List of Books:

ASP.NET

Information Security

AI & ML

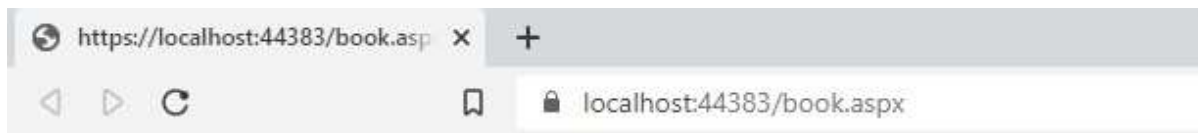
Networking Lab



List of the books

AI & ML

If we don't select a book ->



Application to show list of books

List of Books:

ASP.NET

Information Security

AI & ML

Networking Lab

Practical 5: Design Web Application to read 10 students info from database table into a gridview.cache this output for 10 sec.use cache object

**cacheDemo.aspx** (Will change automatically except for gridview and sqldatasource)

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="cacheDemo.aspx.cs"
Inherits="cachedatabasedemo.cacheDemo" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:GridView runat="server" AutoGenerateColumns="False" DataKeyNames="Id"
DataSourceID="SqlDataSource1" ID="gridView">
```

```
<Columns>
```

```
<asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id"></asp:BoundField>
```

```
<asp:BoundField DataField="Name" HeaderText="Name"
SortExpression="Name"></asp:BoundField>
```

```
<asp:BoundField DataField="Contact_no" HeaderText="Contact_no"
SortExpression="Contact_no"></asp:BoundField>
```

```
<asp:BoundField DataField="Address" HeaderText="Address"
SortExpression="Address"></asp:BoundField>
```

```
</Columns>
```

```
</asp:GridView>
```

```
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%=
ConnectionStrings:studentdbConnectionString %>" ProviderName="<%=
ConnectionStrings:studentdbConnectionString.ProviderName %>" SelectCommand="SELECT *
FROM [Stud_details]"></asp:SqlDataSource>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

[cacheDemo.aspx.cs](#)

```
using System;
```

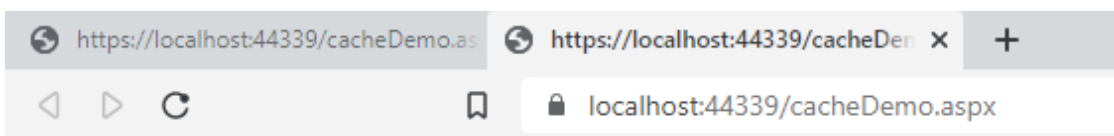
```

using System.Collections;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace cachedatabasedemo
{
    public partial class cacheDemo : System.Web.UI.Page
    {

        protected void Page_Load(object sender, EventArgs e)
        {
            ArrayList stud;
            if (Cache["stud"] == null)
            {
                stud = new ArrayList();
                stud.Add(DateTime.Now.AddSeconds(10));
                Cache.Add("stud", stud, null, System.Web.Caching.Cache.NoAbsoluteExpiration, new
                TimeSpan(0, 0, 10), System.Web.Caching.CacheItemPriority.Default, null);
            }
            else
                stud = (ArrayList)Cache["stud"];
            foreach(DateTime dt in stud)
                Response.Write(dt.ToString()+"cache object<br />");
        }
    }
}

```



4/5/2023 4:25:13 PMcache object

<b>Id</b>	<b>Name</b>	<b>Contact_no</b>	<b>Address</b>
1	Pratiksha	1234567892	Airoli
2	Aarti	1223424321	Vashi
3	Kiyara	5342142354	Pune
4	Priya	4353547323	Mumbai
5	Lekha	4324123456	Parel





