**Answer 1:**

**Code f*or the homepage:***

**.aspx file:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="q1.Default" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="height: 480px">

<br />

<asp:DropDownList ID="DropDownList1" runat="server" OnSelectedIndexChanged="DropDownList1\_SelectedIndexChanged" AutoPostBack="true">

</asp:DropDownList>

<br />

<br />

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

</div>

</form>

</body>

</html>

**.cs file:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace q1

{

public partial class Default : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (!this.IsPostBack)

{

DropDownList1.Items.Add(new ListItem("Honda"));

DropDownList1.Items.Add(new ListItem("Hyundai"));

DropDownList1.Items.Add(new ListItem("Skoda"));

DropDownList1.Items.Add(new ListItem("Toyota"));

}

}

protected void DropDownList1\_SelectedIndexChanged(object sender, EventArgs e)

{

string model = TextBox1.Text;

string manufacturer = DropDownList1.SelectedValue;

string url = "newpage.aspx?model=" + Server.UrlEncode(model) + "&manufacturer=" + Server.UrlEncode(manufacturer);

Response.Redirect(url);

}

}

}

***Code for the newpage:***

**.aspx file:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="newpage.aspx.cs" Inherits="q1.newpage" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="height: 108px">

<asp:Label ID="Label1" runat="server" Text="Manufacturer:"></asp:Label>

<br />

<br />

<asp:Label ID="Label2" runat="server" Text="Model:"></asp:Label>

</div>

</form>

</body>

</html>

**.cs file:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace q1

{

public partial class newpage : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

Label1.Text += " " + Request.QueryString["manufacturer"];

Label2.Text += " " + Request.QueryString["model"];

}

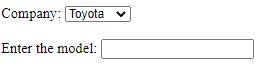
}

}

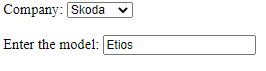
**IO in the next page:-**

**IO:**

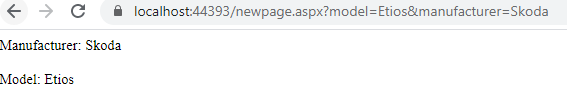
**First, it opens in the homepage:**



**Typing the model and selecting the company:**



**Navigating to the new page:**



**Answer 2:**

**Code:**

***First page:***

**.aspx file:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="firstPage.aspx.cs" Inherits="q2.firstPage" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body style="height: 376px">

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

<div>

<asp:Label ID="Label1" runat="server" Text="Name"></asp:Label>

&nbsp;&nbsp;&nbsp;

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

<br />

<br />

<asp:Label ID="Label2" runat="server" Text="Roll No"></asp:Label>

&nbsp;&nbsp;&nbsp;

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

<br />

<br />

<asp:Label ID="Label3" runat="server" Text="Subjects"></asp:Label>

&nbsp;&nbsp;&nbsp;

<asp:DropDownList ID="DropDownList1" runat="server" placeholder=""></asp:DropDownList>

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Submit" />

</div>

</form>

</body>

</html>

**.cs file:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace q2

{

public partial class firstPage : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

DropDownList1.Items.Add("English");

DropDownList1.Items.Add("Sanskrit");

DropDownList1.Items.Add("Greek");

}

protected void Button1\_Click(object sender, EventArgs e)

{

string name = TextBox1.Text;

string rollno = TextBox2.Text;

string subject = DropDownList1.SelectedValue;

Session["name"] = name;

Session["rollno"] = rollno;

Session["subject"] = subject;

Response.Redirect("secondPage.aspx");

}

}

}

***Second page:***

**.aspx file:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="secondPage.aspx.cs" Inherits="q2.secondPage" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="height: 370px">

<asp:Label ID="Label1" runat="server"></asp:Label>

<br />

<br />

<asp:Label ID="Label2" runat="server"></asp:Label>

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Button" />

</div>

</form>

</body>

</html>

**.cs file:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace q2

{

public partial class secondPage : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (!this.IsPostBack)

{

Label2.Text = "0";

HttpCookie cookie = new HttpCookie("counter");

cookie["Counter"] = "0";

Response.Cookies.Add(cookie);

}

string name = (string)Session["name"];

string rollno = (string)Session["rollno"];

string subject = (string)Session["subject"];

Label1.Text = "name:" + name + " rollno:" + rollno + " subject:" + subject;

}

protected void Button1\_Click(object sender, EventArgs e)

{

HttpCookie cookie = Request.Cookies["counter"];

if (cookie != null)

{

int val = Int32.Parse(cookie["Counter"]);

val++;

Label2.Text = val.ToString();

cookie["Counter"] = val.ToString();

Response.Cookies.Add(cookie);

}

}

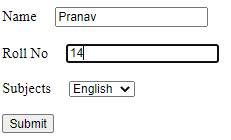
}

}

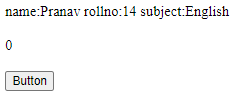
**IO in the next page:-**

**IO:**

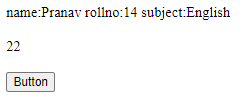
**Filling details on the first page:**



**Clicking submit to go to the second page:**



**Clicking the button 22 times:**



**Answer 3:**

**Code:**

**.aspx file:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="q3.WebForm1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body style="height: 434px">

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

<div>

<asp:Label ID="Label3" runat="server"></asp:Label>

<br />

</div>

<asp:Label ID="Label1" runat="server" Text="Name"></asp:Label>

&nbsp;&nbsp;&nbsp;

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

<br />

<br />

<asp:Label ID="Label2" runat="server" Text="Cart(enter a comma separated list)"></asp:Label>

&nbsp;&nbsp;&nbsp;

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

<br />

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Continue Shopping" />

</form>

</body>

</html>

**.cs file:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace q3

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (!this.IsPostBack)

{

Label3.Text = "New user detected";

}

HttpCookie cookie = Request.Cookies["Preferences"];

if (cookie != null)

{

string name = cookie["name"];

string cart = cookie["cart"];

Label3.Text = "Welcome " + name;

TextBox2.Text = cart;

}

}

protected void Button1\_Click(object sender, EventArgs e)

{

HttpCookie cookie = new HttpCookie("Preferences");

cookie["name"] = TextBox1.Text;

cookie["cart"] = TextBox2.Text;

cookie.Expires = DateTime.Now.AddMinutes(2);

Response.Cookies.Add(cookie);

}

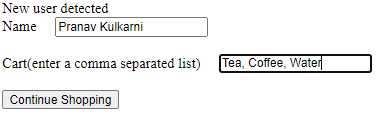
}

}

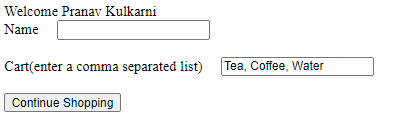
**IO in the next page:-**

**IO:**

**Entering details on the landing page:**



**Closing and opening the browser:**



**Answer 4:**

**Code:**

**.aspx file:**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="q4.WebForm1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="height: 290px">

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<br />

&nbsp;&nbsp;&nbsp;

<asp:Label ID="Label1" runat="server" Text="Username"></asp:Label>

&nbsp;&nbsp;

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

<br />

<br />

&nbsp;&nbsp;&nbsp; Password

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

<br />

<br />

&nbsp;&nbsp;&nbsp;

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Login" />

&nbsp;&nbsp;&nbsp;

<br />

<br />

&nbsp;&nbsp;&nbsp;

<asp:Label ID="Label2" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**.cs file:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace q4

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (!this.IsPostBack)

{

Session["login\_count"] = 0;

Application["fail\_count"] = 0;

}

}

protected void Button1\_Click(object sender, EventArgs e)

{

string username = TextBox1.Text;

string password = TextBox2.Text;

if (username.Equals("pranav") && password.Equals("12345"))

{

int login\_count = (int)Session["login\_count"];

login\_count++;

Session["login\_count"] = login\_count;

Label2.Text = "Login count:" + login\_count.ToString();

Application["fail\_count"] = 0;

}

else

{

Label2.Text = "Wrong credentials";

int fail\_count = (int)Application["fail\_count"];

fail\_count++;

Application["fail\_count"] = fail\_count;

if (fail\_count == 3)

{

TextBox1.Enabled = false;

TextBox2.Enabled = false;

}

}

}

}

}

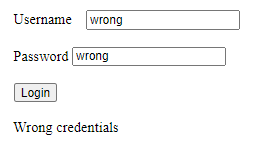
**IO in the next page:-**

**IO:**

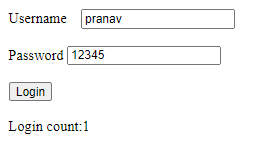
**Landing page looks like this:**



**Entering wrong credentials:**



**Entering correct credentials:**



**Logging in several times:**

