

PRACTICAL NO.05**Write the program for the following:**

a. Create Web Form to demonstrate use of Website Navigation controls.

Code:

Master Page Code:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="MasterPage.master.cs"
Inherits="Navigation.MasterPage" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

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

```
<title>Navigation Demo</title>
```

```
<style>
```

```
body {
```

```
font-family: Arial, sans-serif;
```

```
margin: 0;
```

```
padding: 0;
```

```
background-color: #f4f4f4;
```

```
}
```

```
#header {
```

```
background-color: #333;
```

```
color: white;
```

```
padding: 15px 0;
```

```
text-align: center;
```

```
}
```

```
#header h1 {
```

```
margin: 0;
```

```
}
```

```
}
```

```
#content {
```

```
margin: 20px;
```

```
}
```

```
#footer {
```

```
background-color: #333;
```

```
color: white;
```

```
text-align: center;
```

```
padding: 10px 0;
```

```
position: fixed;
```

```
width: 100%;
```

```
}
```

```
.treeview {
```

```
margin-top: 20px;
```

```
}
```

```
#box {
```

```
background-color: aquamarine;
```

```
color: black;
```

```
text-align: center;
```

```
padding: 10px;
```

```
}
```

```
</style>
```

```
<asp:ContentPlaceHolder ID="head" runat="server">
```

```
</asp:ContentPlaceHolder>
```

```
</head>
```

```
<body>
```

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

```
<!-- Header Section -->
```

```
<div id="header">
```

```
<h1>My Website</h1>
```

```
</div>
```

```
<div id="content">
```

```
<div>
```

```
<strong>SiteMapPath:</strong><br />
```

```
<asp:SiteMapPath ID="SiteMapPath1" runat="server" />
<br />
<br />
<strong>Menu:<br /></strong>
<asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1" >
</asp:Menu>
<br />
<br />
<strong>TreeView:</strong><asp:TreeView ID="TreeView1" runat="server"
DataSourceID="SiteMapDataSource1" ShowLines="True" CssClass="treeview">
</asp:TreeView>
</div>
<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
</asp:ContentPlaceHolder>
</div>

<!-- Footer Section -->
<div id="footer">
<p>&copy; 2024 My Website. All rights reserved.</p>
</div>

<asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
</form>
</body>
</html>
```

Sitemap Code:

```
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0">
<siteMapNode url="WebForm1.aspx" title="First Page" description="This is the first
page">
<siteMapNode url="WebForm2.aspx" title="Second Page" description="This is
the second page" />
<siteMapNode url="WebForm3.aspx" title="Third Page" description="This is
the third page" />
</siteMapNode>
</siteMap>
```

WebForm1.aspx , WebForm2.aspx , WebForm3.aspx Code:

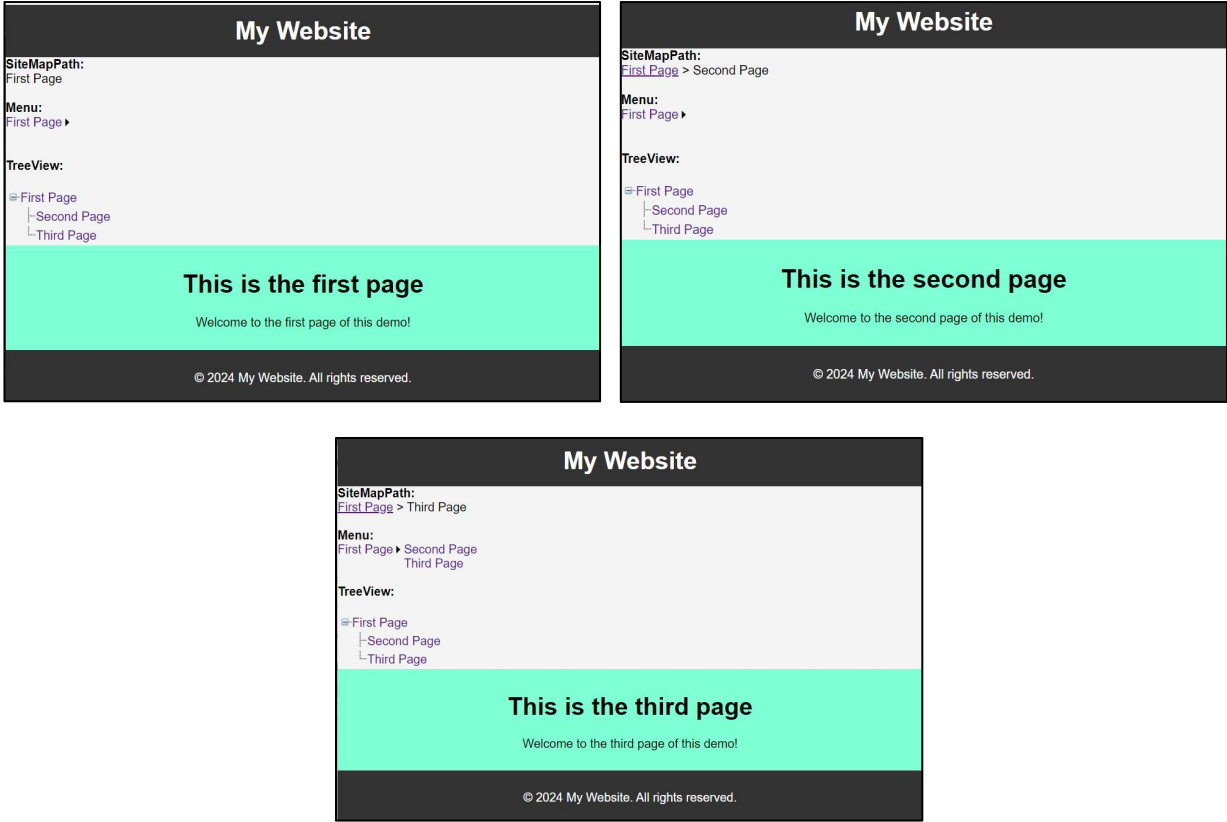
```
<%@ Page Title="First Page" Language="C#" MasterPageFile="~/MasterPage.Master"
AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Navigation.WebForm1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<div id="box">
<h1>This is the first page</h1>
<p>Welcome to the first page of this demo!</p>
</div>
</asp:Content>

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master"
AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="Navigation.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<div id="box">
<h1>This is the second page</h1>
<p>Welcome to the second page of this demo!</p>
</div>
```

</asp:Content>

```
<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.Master"
AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="Navigation.WebForm3" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <div id="box">
        <h1>This is the third page</h1>
        <p>Welcome to the third page of this demo!</p>
    </div>
</asp:Content>
```

Output:



b. Create a web application to demonstrate use of Master Page and content page.

Code:

Master Page Code:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="pract5B.Site1" %>
<!DOCTYPE html>
<html>
<head runat="server">
    <title></title>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <header>
                <h1>Welcome to My Website</h1>
            <nav>
                <a href="Default.aspx">Home</a> |
                <a href="About.aspx">About</a> |
                <a href="Contact.aspx">Contact</a>
```

```
</nav>
<hr />
</header>
<main>
  <asp:ContentPlaceHolder ID="MainContent" runat="server">
  </asp:ContentPlaceHolder>
</main>
<footer>
  <hr />
  <p>SRM College Kudal</p>
  <p>&copy; 2024 My Website</p>
</footer>
</div>
</form>
</body>
</html>
```

Default.aspx:

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="pract5B.Default" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
  <h2>Home Page</h2>
  <p>Welcome to the home page of this simple website.</p>
</asp:Content>
```

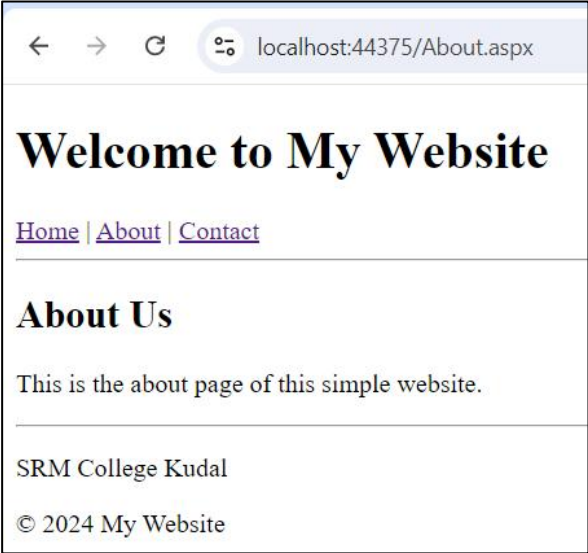
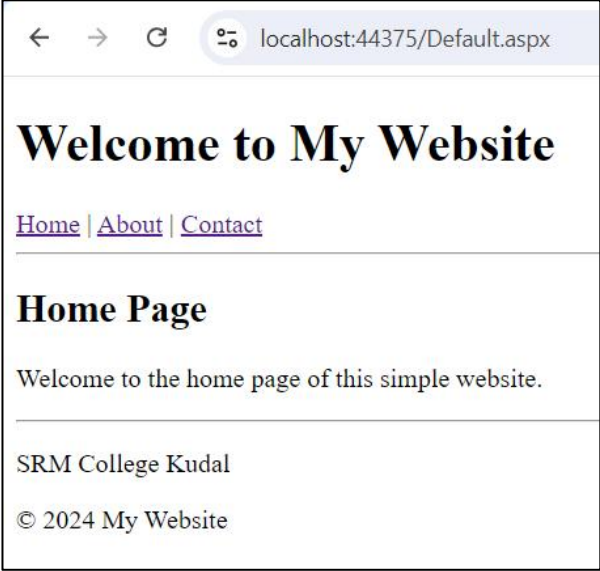
About.aspx:

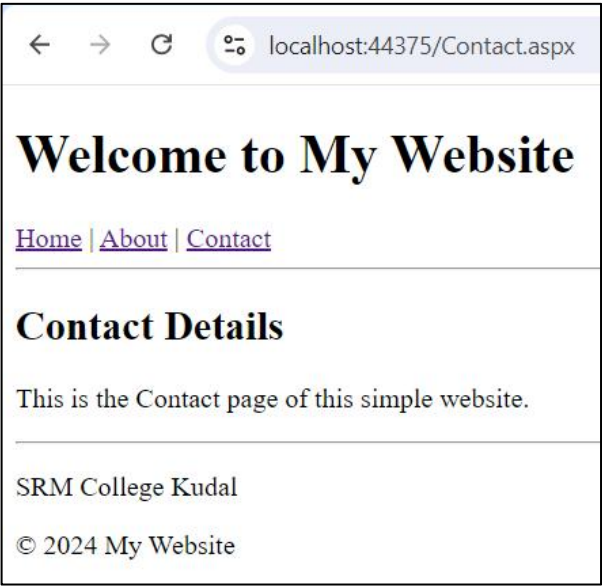
```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="About.aspx.cs" Inherits="pract5B.About" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
  <h2>About Us</h2>
  <p>This is the about page of this simple website.</p>
</asp:Content>
```

Contact.aspx:

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="Contact.aspx.cs" Inherits="pract5B.Contact" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
  <h2>Contact Details</h2>
  <p>This is the Contact page of this simple website.</p>
</asp:Content>
```

Output:





c. Create a web application to demonstrate various states of ASP.NET Pages.

Code:

Aspx Code:

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Shopping Cart Demo</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h2>Shopping Cart Demo</h2>

            <h3>ViewState</h3>
            <p>Items added in this session: <asp:Label ID="lblViewState" runat="server" Text="0"
/></p>
            <asp:Button ID="btnAddToCartViewState" runat="server" Text="Add to Cart
(ViewState)" OnClick="btnAddToCartViewState_Click" />

            <h3>SessionState</h3>
            <p>Items in your cart: <asp:Label ID="lblSessionState" runat="server" Text="0"
/></p>
            <asp:Button ID="btnAddToCartSessionState" runat="server" Text="Add to Cart
(SessionState)" OnClick="btnAddToCartSessionState_Click" />

            <h3>ApplicationState</h3>
            <p>Total items added by all users: <asp:Label ID="lblApplicationState" runat="server"
Text="0" /></p>
            <asp:Button ID="btnAddToCartApplicationState" runat="server" Text="Add to Cart
(ApplicationState)" OnClick="btnAddToCartApplicationState_Click" />

            <br />
            <asp:Label ID="lblResult" runat="server" Text="" />
        </div>
    </form>
</body>
</html>
```

C# Code:

```
using System;
using System.Web.UI;
namespace ShoppingCartDemo
{
    public partial class WebForm1 : Page
```

```

{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!IsPostBack)
        {
            // Initialize ViewState
            ViewState["ItemsInSession"] = 0;

            // Initialize SessionState
            if (Session["ItemsInCart"] == null)
            {
                Session["ItemsInCart"] = 0;
            }

            // Initialize ApplicationState
            if (Application["TotalItems"] == null)
            {
                Application["TotalItems"] = 0;
            }

            lblViewState.Text = ViewState["ItemsInSession"].ToString();
            lblSessionState.Text = Session["ItemsInCart"].ToString();
            lblApplicationState.Text = Application["TotalItems"].ToString();
        }
    }

    protected void btnAddToCartViewState_Click(object sender, EventArgs e)
    {
        // Increment items in ViewState
        int itemsInSession = (int)ViewState["ItemsInSession"] + 1;
        ViewState["ItemsInSession"] = itemsInSession;
        lblViewState.Text = itemsInSession.ToString();
        lblResult.Text = "Item added to cart (ViewState).";
    }

    protected void btnAddToCartSessionState_Click(object sender, EventArgs e)
    {
        // Increment items in SessionState
        int itemsInCart = (int)Session["ItemsInCart"] + 1;
        Session["ItemsInCart"] = itemsInCart;
        lblSessionState.Text = itemsInCart.ToString();
        lblResult.Text = "Item added to cart (SessionState).";
    }

    protected void btnAddToCartApplicationState_Click(object sender, EventArgs e)
    {
        // Increment items in ApplicationState
        int totalItems = (int)Application["TotalItems"] + 1;
        Application["TotalItems"] = totalItems;
        lblApplicationState.Text = totalItems.ToString();
        lblResult.Text = "Item added to cart (ApplicationState).";
    }
}

```

Output:

