```
/**
Practical no. 1(a)
Aim :- a. Create an application to print on screen the output of adding, subtracting, multiplying
and dividing two numbers entered by the user in C#.
 **/
//Change the while creating appln put the 'Pract Name' that should be there after the 'namespace'
in Code" [Remember that only]
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pract1a
{
     class Program
    {
        int a, b;
        public Program()
        {
            Console.WriteLine("Enter two numbers");
            a = Convert.ToInt32(Console.ReadLine());
            b = Convert.ToInt32(Console.ReadLine());
        }
        int Add()
        {
            return a + b;
        }
        int Sub()
        {
            return a - b;
        }
        int Mul()
        {
            return a * b;
        }
        int Div()
        {
            return a / b;
        }
        static void Main(string[] args)
        {
            Console.WriteLine("Arithematic Operations");
            Program p = new Program();
            Console.WriteLine("Addition" + p.Add());
            Console.WriteLine("Subtraction" + p.Sub());
            Console.WriteLine("Multiplication" + p.Mul());
            Console.WriteLine("Division" + p.Div());
            Console.ReadKey();
        }
    }
}
```

Output :-

```
Arithematic Operations
Enter two numbers
100
20
Addition120
Subtraction80
Multiplication2000
Division5
```

```
/**
Practical no. 1(b)
Aim :- b. Create an application to print Floyd's triangle till n rows in C#.
 **/
//Change the while creating appln put the 'Pract Name' that should be there after the 'namespace'
in Code" [Remember that only]
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pract1b
{
    class Program
    {
        static void Main()
        {
            int n = 1;
            Console.WriteLine("Enter number of rows");
            int r = int.Parse(Console.ReadLine());
            for (int i = 0; i < r; i++)
            {
                for (int j = 0; j < i + 1; j++)
                {
                    Console.Write(n + "\t");
                    n += 1;
                }
                Console.WriteLine();
                Console.ReadKey();
            }
        }
    }
}
```

Output :-

```
Enter number of rows
5
1
2       3
4       5       6
7       8       9       10
11      12      13      14      15
```

```
/**
Practical no. 1(c)
Aim :- c. Create an application to demonstrate following operations
            i. Generate Fibonacci series.
 **/
//Change the while creating appln put the 'Pract Name' that should be there after the 'namespace'
in Code" [Remember that only]
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pract1ci
{
    class Program
```

```
    {
        static void Main(string[] args)
        {
            int f0 = 0, f1 = 1, fib = 0;
            Console.WriteLine("Enter number of elements to display in fibonacci series");
            int r = int.Parse(Console.ReadLine());
            Console.WriteLine("**************fibonacci series**************");
            Console.WriteLine(f0);
            Console.WriteLine(f1);
            for (int i = 0; i < r - 2; i++)
            {
                fib = f0 + f1;
                Console.WriteLine(fib);
                f0 = f1;
                f1 = fib;
                Console.ReadKey();

            }
        }
    }
}
```

Output :-

```
Enter number of elements to display in fibonacci series
8
**************fibonacci series**************
0
1
1
2
3
5
8
13
```

```
/**
Practical no. 1(c)
Aim :- c. Create an application to demonstrate following operations
           ii. Test for prime numbers.
 **/
//Change the while creating appln put the 'Pract Name' that should be there after the 'namespace'
in Code" [Remember that only]
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pract1cii
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter number");
            int n = int.Parse(Console.ReadLine());
            bool flag = true;
            Console.WriteLine("**************Prime Numbers**************");
            for (int i = 2; i <= n; i++)
            {
                for (int j = 2; j <= n; j++)
```

```
                {
                    if (i != j && i % j == 0)
                    {
                        flag = false;
                    }
                }
                if (flag == true)
                {
                    Console.WriteLine("Prime Numbers are:" + i);
                }
                flag = true;
                Console.ReadKey();
            }
        }
    }
}
```

Output :-

```
Enter number
9
**************Prime Numbers**************
Prime Numbers are:2
Prime Numbers are:3
Prime Numbers are:5
Prime Numbers are:7
```

```
/**
Practical no. 2(a)
Aim :- a. Create a simple application to demonstrate the concepts boxing and unboxing.
 **/
//Change the while creating appln put the 'Pract Name' that should be there after the 'namespace'
in Code" [Remember that only]
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pract2a
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter number");
            int n = int.Parse(Console.ReadLine());
            Console.WriteLine("**************Boxing**************");
            Object o = n;
            Console.WriteLine("Object o=" + o);
            int m = (int)o;
            Console.WriteLine("**************Unboxing**************");
            Console.WriteLine("Integer m=" + m);
            Console.ReadKey();
        }
    }
}
```

Output :-

```
Enter number
5
**************Boxing**************
```

```
Object o=5
**************Unboxing**************
Integer m=5


/**
Practical no. 2(b)
Aim :- b. Create a simple application to perform addition and subtraction using delegate.
 **/
//Change the while creating appln put the 'Pract Name' that should be there after the 'namespace'
in Code" [Remember that only]
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pract2b
{
    class Program
    {
        static void Main(string[] args)
        {
            //delegate instances
            Arith op1 = new Arith(MathOp.Add);
            Arith op2 = new Arith(MathOp.Sub);
            //invoking delegates
            int result1 = op1(200, 100);
            int result2 = op2(200, 50);
            Console.WriteLine("Add = " + result1);
            Console.WriteLine("Sub = " + result2);
            Console.WriteLine("Mul = " + MathOp.Mul(2, 3));
            Console.ReadKey();
        }
    }
    delegate int Arith(int x, int y);
    //delegate declaration
    class MathOp
    {
        //delegate methods definition
        public static int Add(int x, int y)
        {
            return (x + y);
        }
        public static int Sub(int x, int y)
        {
            return (x - y);
        }
        //do not match delegate signature
        public static float Mul(int x, int y)
        {
            return (x * y);
        }
    }
}

Output :-
Add = 300
Sub = 150
Mul = 6
```

```
/**
Practical no. 2(c)
Aim :-  c. Create a simple application to demonstrate use of the concepts of interfaces.
 **/
//Change the while creating appln put the 'Pract Name' that should be there after the 'namespace'
in Code" [Remember that only]
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pract2c
{
    public interface Area
    {
        int square(int side);
        double Circle(int radius);
    }
    class Shape : Area
    {
        public int square(int side)
        {
            return side * side;
        }
        public double Circle(int radius)
        {
            return Math.PI * radius * radius;
        }
    }
    class Program
    {
        static void Main(string[] args)
        {
            Shape s = new Shape();
            Console.WriteLine("Enter side of a Square");
            int n = int.Parse(Console.ReadLine());
            Console.WriteLine(">>>>>>>>>>>>>>>Square<<<<<<<<<<<<<<<");
            Console.WriteLine("Area of Square:" + s.square(n));
            Console.WriteLine("Enter radius of a Circle");
            int m = int.Parse(Console.ReadLine());
            Console.WriteLine(">>>>>>>>>>>>>>>Circle<<<<<<<<<<<<<<<");
            Console.WriteLine("Area of Cicle:" + s.Circle(m));
            Console.ReadKey();
        }
    }
}
```

Output :-

```
Enter side of a Square
2
>>>>>>>>>>>>>>>Square<<<<<<<<<<<<<<<
Area of Square:4
Enter radius of a Circle
4
>>>>>>>>>>>>>>>Circle<<<<<<<<<<<<<<<
Area of Cicle:50.2654824574367
```

```
/**
Practical no. 3(a)
Aim :-  a. Create a Registration form to demonstrate use of various Validation controls.
```

```
 **/

home.aspx :- (In Design[Source Code])
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="home.aspx.cs" Inherits="Pract3a.home"
%>//Change the Inherits=" "while creating appln put that in all Design Source Code".home" [Remember
that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Home Page<br />
            <br />
            <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/login.aspx">Login</asp:HyperLink>
            <br />
            <br />
            <asp:HyperLink ID="HyperLink2" runat="server"
NavigateUrl="~/coursedetails.aspx">Course Details</asp:HyperLink>
            <br />
        </div>
    </form>
</body>
</html>

home.aspx.cs :-
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract3a
{
    public partial class home : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
    }
}

coursedetails.aspx :- (In Design[Source Code])
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="coursedetails.aspx.cs"
Inherits="Pract3a.coursedetails" %>%>//Change the Inherits=" "here do the same as was told in
previous".coursedetails" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            width: 50%;
        }
        .auto-style2 {
            width: 323px;
        }
        .auto-style3 {
```

```
            width: 323px;
            height: 26px;
        }
        .auto-style4 {
            height: 26px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Course Details<br />
            <br />
            <br />
            <table class="auto-style1">
                <tr>
                    <td class="auto-style3">Arts</td>
                    <td class="auto-style4">10000</td>
                </tr>
                <tr>
                    <td class="auto-style2">Commerce</td>
                    <td>15000</td>
                </tr>
                <tr>
                    <td class="auto-style2">Science</td>
                    <td>20000</td>
                </tr>
            </table>
            <br />
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Go to Home Page"
/>
            <br />
            <br />
        </div>
    </form>
</body>
</html>
```

coursedetails.aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract3a
{
    public partial class coursedetails : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("home.aspx");
        }
    }
}
```

login.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="login.aspx.cs" Inherits="Pract3a.login"
```

```
%>//Change the Inherits=" "here do the same as was told in previous".login" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Login<br />
            <br />
            Username:
            <asp:TextBox ID="txtname" runat="server"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
ControlToValidate="txtname" ErrorMessage="Field should not be
empty"></asp:RequiredFieldValidator>
            <br />
            <br />
            Password:
            <asp:TextBox ID="txtpwd" runat="server" TextMode="Password"></asp:TextBox>
            <br />
            <br />
            Confirm Password:
            <asp:TextBox ID="txtcnfpwd" runat="server" TextMode="Password"></asp:TextBox>
            <asp:CompareValidator ID="CompareValidator1" runat="server"
ControlToCompare="txtpwd" ControlToValidate="txtcnfpwd" ErrorMessage="Password does not
match"></asp:CompareValidator>
            <br />
            <br />
            <asp:Button ID="btnlogin" runat="server" OnClick="btnlogin_Click" Text="Login" />
     
            <asp:Button ID="btnreset" runat="server" OnClick="btnreset_Click" Text="Reset" />
            <br />
            <br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
        </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 Pract3a
{
    public partial class login : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void btnlogin_Click(object sender, EventArgs e)
        {
            if (txtname.Text == "ABC" && txtpwd.Text == "123")
                Response.Redirect("registration.aspx");
            else
                Label1.Text = "Enter Invalid Information";
```

```
        }
        protected void btnreset_Click(object sender, EventArgs e)
        {
            txtname.Text = "";
            txtpwd.Text = "";
            txtcnfpwd.Text = "";
        }
    }
}
```

registration.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="registration.aspx.cs"
Inherits="Pract3a.registration" %>//Change the Inherits=" "here do the same as was told in
previous".registration" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Registration<br />
            <br />
            Name:<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
ControlToValidate="TextBox1" ErrorMessage="Enter name"></asp:RequiredFieldValidator>
            <br />
            <br />
            Email:<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"
ControlToValidate="TextBox2" ErrorMessage="Enter validate email id"
ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*"></asp:RegularExpressionVal
idator>
            <br />
            <br />
            Phone no. :<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
            <br />
            <br />
            Gender :<br />
            <br />
 
            <asp:RadioButton ID="RadioButton1" runat="server" GroupName="g" Text="Male" />
            <asp:RadioButton ID="RadioButton2" runat="server" GroupName="g" Text="Female" />
            <br />
            <br />
            Age: <asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
            <asp:RangeValidator ID="RangeValidator1" runat="server" ControlToValidate="TextBox5"
ErrorMessage="age between 20 to 60" MaximumValue="60" MinimumValue="20"></asp:RangeValidator>
            <br />
            <br />
            Address:<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
            <br />
            <br />
            Course Details:
            <asp:DropDownList ID="DropDownList1" runat="server">
                <asp:ListItem>Arts</asp:ListItem>
                <asp:ListItem>Commerce</asp:ListItem>
                <asp:ListItem>Science</asp:ListItem>
            </asp:DropDownList>
            <br />
```

```
            <br />
            <asp:Button ID="btnregister" runat="server" Height="26px"
OnClick="btnregister_Click" Text="Register" />
            <br />
        </div>
    </form>
</body>
</html>
```

registration.aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract3a
{
    public partial class registration : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
        {
        }
        protected void btnregister_Click(object sender, EventArgs e)
        {
            string g, c = "";
            string[] a = new string[4];
            if (RadioButton1.Checked == true)
                g = RadioButton1.Text;
            else
                g = RadioButton2.Text;
            if (DropDownList1.SelectedValue == "Arts")
                c = "10000";
            else if (DropDownList1.SelectedValue == "Commerce")
                c = "15000";
            else if (DropDownList1.SelectedValue == "Science")
                c = "20000";
            Response.Redirect("receipt.aspx?Name=" + TextBox1.Text + "&Gender=" + g + "&Email="
+ TextBox2.Text + "&Course=" + DropDownList1.SelectedValue + "&Fee=" + c);
        }
    }
}
```

receipt.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="receipt.aspx.cs"
Inherits="Pract3a.receipt" %>//Change the Inherits=" "here do the same as was told in
previous".receipt" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            Receipt<br />
            <br />
```

```
            Name:<asp:Label ID="lblname" runat="server"></asp:Label>
            <br />
            <br />
            Gender:<asp:Label ID="lblgender" runat="server"></asp:Label>
            <br />
            <br />
            Email:<asp:Label ID="lblemail" runat="server"></asp:Label>
            <br />
            <br />
            Course:<asp:Label ID="lblcourse" runat="server"></asp:Label>
            <br />
            <br />
            Fee:<asp:Label ID="lblfee" runat="server"></asp:Label>
            <br />
            <br />
            <asp:Label ID="Label6" runat="server"></asp:Label>
            <br />
        </div>
    </form>
</body>
</html>
```

receipt.aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract3a
{
    public partial class receipt : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            lblname.Text = Request.QueryString["Name"];
            lblgender.Text = Request.QueryString["Gender"];
            lblemail.Text = Request.QueryString["Email"];
            lblcourse.Text = Request.QueryString["Course"];
            lblfee.Text = Request.QueryString["Fee"];
        }
    }
}


/**
Practical no. 3(b)
Aim :-  b. Create a simple application to demonstrate your vacation using calendar control.
 **/
```

calendar.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="calendar.aspx.cs"
Inherits="Pract3b.calendar" %>//Change the Inherits=" "while creating appln put that in all Design
Source Code".calendar" & also put an 2 imgs name as td.jpg & gc.jpg or changing the img name do
the changes where ".jpg" is there for putting the img just "cpy" the img then in "Solution Explorer"
whichever "appln" is created just right on it & "pste" it. [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
```

```
<body>
    <form id="form1" runat="server">
        <div>
        </div>
        <asp:Calendar ID="Calendar1" runat="server" OnDayRender="Calendar1_DayRender"
OnSelectionChanged="Calendar1_SelectionChanged"></asp:Calendar>
        <br />
        Your selected date : <asp:Label ID="Label1" runat="server"></asp:Label>
        <br />
        Today&#39;s Date :
        <asp:Label ID="Label2" runat="server"></asp:Label>
        <br />
        Ganpati Vacation Start :
        <asp:Label ID="Label3" runat="server"></asp:Label>
        <br />
        Days Remaining for Ganpati Vacation :
        <asp:Label ID="Label4" runat="server"></asp:Label>
        <br />
        Days remaining for new year :
        <asp:Label ID="Label5" runat="server"></asp:Label>
        <br />
        <br />
        <asp:Button ID="btnResult" runat="server" Height="26px" OnClick="btnResult_Click"
Text="Result" />
 
        <asp:Button ID="btnReset" runat="server" OnClick="btnReset_Click" Text="Reset" />
    </form>
</body>
</html>
```

calendar.aspx.cs :- (In Design[Source Code])

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract3b
{
    public partial class calendar : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void btnResult_Click(object sender, EventArgs e)
        {
            Calendar1.Caption = "SAMBARE";
            Calendar1.FirstDayOfWeek = FirstDayOfWeek.Sunday;
            Calendar1.NextPrevFormat = NextPrevFormat.ShortMonth;
            Calendar1.TitleFormat = TitleFormat.Month;

            Label2.Text = "Todays Date" + Calendar1.TodaysDate.ToShortDateString();
            Label3.Text = "Ganpati Vacation Start: 9-07-2024";
            TimeSpan d = new DateTime(2024, 9, 07) - DateTime.Now;
            Label4.Text = "Days Remaining For Ganpati Vacation:" + d.Days.ToString();
            TimeSpan d1 = new DateTime(2024, 12, 31) - DateTime.Now;
            Label5.Text = "Days Remaining for New Year:" + d1.Days.ToString();
            if (Calendar1.SelectedDate.ToShortDateString() == "9-07-2024")
                Label3.Text = "<b>Ganpati Festival Start </b>";
            if (Calendar1.SelectedDate.ToShortDateString() == "9-17-2024")
                Label3.Text = "<b>Ganpati Festival End </b>";
```

```
        }
        protected void btnReset_Click(object sender, EventArgs e)
        {
            Label1.Text = "";
            Label2.Text = "";
            Label3.Text = "";
            Label4.Text = "";
            Label5.Text = "";
            Calendar1.SelectedDates.Clear();
        }
        protected void Calendar1_SelectionChanged(object sender, EventArgs e)
        {
            Label1.Text = "Your Selected Date:" + Calendar1.SelectedDate.Date.ToString();
        }
        protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
        {
            if (e.Day.Date.Day == 5 && e.Day.Date.Month == 9)
            {
                e.Cell.BackColor = System.Drawing.Color.Yellow;
                Label lbl = new Label();
                lbl.Text = "<br>Teachers Day!";
                e.Cell.Controls.Add(lbl);
                Image g1 = new Image();
                g1.ImageUrl = "td.jpg";
                g1.Height = 20;
                g1.Width = 20;
                e.Cell.Controls.Add(g1);
            }
            if (e.Day.Date.Day == 13 && e.Day.Date.Month == 9)
            {
                Calendar1.SelectedDate = new DateTime(2024,9,7);
                e.Cell.BackColor = System.Drawing.Color.Yellow;
                Calendar1.SelectedDates.SelectRange(Calendar1.SelectedDate,
Calendar1.SelectedDate.AddDays(10));
                Label lbl1 = new Label();
                lbl1.Text = "<br>Ganpati!";
                e.Cell.Controls.Add(lbl1);
                Image g1 = new Image();
                g1.ImageUrl = "gc.jpg";
                g1.Height = 20;
                g1.Width = 20;
                e.Cell.Controls.Add(g1);
            }
        }
    }
}


/**
Practical no. 3(c)
Aim :-  c. Demonstrate the use of Treeview operations on the web form.
 **/

treeview.aspx :- (In Design[Source Code])
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="treeview.aspx.cs"
Inherits="Pract3c.treeview" %>//Change the Inherits=" "while creating appln put that in all Design
Source Code".treeview" [Remember that only & its steps treeview instant that just cpy an pste it]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
```

```
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            <asp:TreeView ID="TreeView1" runat="server">
                <Nodes>
                    <asp:TreeNode Text="ASP.NET Practical" Value="ASP.NET Practical">
                        <asp:TreeNode Text="Overloading" Value="Overloading">
                            <asp:TreeNode Text="Overriding" Value="Overriding"></asp:TreeNode>
                        </asp:TreeNode>
                    </asp:TreeNode>
                    <asp:TreeNode Text="AJT Practical" Value="AJT Practical">
                        <asp:TreeNode Text="Jbeans" Value="Jbeans"></asp:TreeNode>
                        <asp:TreeNode Text="Servlet" Value="Servlet"></asp:TreeNode>
                    </asp:TreeNode>
                </Nodes>
            </asp:TreeView>
            <br />
            <br />
        </div>
    </form>
</body>
</html>


/**
Practical no. 3(d)
Aim :-  d. Demonstrate the use of DataList operations on the web form.
 **/

datalist.aspx :- (In Design[Source Code])
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="datalist.aspx.cs"
Inherits="Pract3d.datalist" %>//Change the Inherits=" "while creating appln put that in all Design
Source Code".datalist" [Remember that only & its steps datalist instant that just cpy an pste it]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            <asp:DataList ID="DataList1" runat="server"
OnSelectedIndexChanged="DataList1_SelectedIndexChanged">
                <ItemTemplate>
                    Roll no. :-
                    <asp:Label ID="Label1" runat="server" Text='<%# Eval("sid") %>'></asp:Label>
                    <br />
                    Name :-
                    <asp:Label ID="Label2" runat="server" Text='<%# Eval("sname")
%>'></asp:Label>
                    <br />
                    Class :-
                    <asp:Label ID="Label3" runat="server" Text='<%# Eval("sclass")
%>'></asp:Label>
                </ItemTemplate>
            </asp:DataList>
            <br />
        </div>
```

```
    </form>
</body>
</html>
```

studdetails.xml :-/** for creating ".xml" file do same process as creating webform for that right click on created your appln go to 'add' seen at end 'xml' file or go to 'new items' and search the file **/

```
<?xml version="1.0" encoding="utf-8" ?>
<studentdetail>
        <student>
                <sid>1</sid>
                <sname>Sarthak</sname>
                <sclass>TyIT</sclass>
        </student>
        <student>
                <sid>2</sid>
                <sname>Arpit</sname>
                <sclass>TyIT</sclass>
        </student>
        <student>
                <sid>3</sid>
                <sname>Piyush</sname>
                <sclass>TyIT</sclass>
        </student>
        <student>
                <sid>4</sid>
                <sname>Kundan</sname>
                <sclass>SyIT</sclass>
        </student>
        <student>
                <sid>5</sid>
                <sname>Aditya</sname>
                <sclass>FyIT</sclass>
        </student>
</studentdetail>
```

datalist.aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract3d
{
    public partial class datalist : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                BindData();
            }
        }
        protected void BindData()
        {
            DataSet ds = new DataSet();
            ds.ReadXml(Server.MapPath("studdetails.xml"));
            if (ds != null && ds.HasChanges())
            {
```

```
                DataList1.DataSource = ds;
                DataList1.DataBind();
            }
            else
            {
                DataList1.DataBind();
            }
        }
        protected void DataList1_SelectedIndexChanged(object sender, EventArgs e)
        {
        }
    }
}


/**
Practical no. 4(a)
Aim :-  a. Create Web Form to demonstrate use of Adrotator Control.
 **/

addrotator.aspx :-
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="addrotator.aspx.cs"
Inherits="Pract4a.addrotator" %>//Change the Inherits=" "while creating appln put that in all Design
Source Code".addrotator" & also put an 3 imgs name as rose1.jpg, rose2.jpg & rose3.jpg or changing
the img name do the changes where ".jpg" is there for putting the img just "cpy" the img then in
"Solution Explorer" whichever "appln" is created just right on it & "pste" it. [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <asp:AdRotator ID="AdRotator1" runat="server" DataSourceID="XmlDataSource1" />
        <div>
            <br />
            <asp:XmlDataSource ID="XmlDataSource1" runat="server"
DataFile="~/addrotator.xml"></asp:XmlDataSource>
            <br />
        </div>
    </form>
</body>
</html>

addrotator.xml :-:-/** for creating ".xml" file do same process as creating webform for that right
click on created your appln go to 'add' seen at end 'xml' file or go to 'new items' and search the
file **/
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
       <Ad>
              <ImageUrl>rose1.jpg</ImageUrl>
              <NavigateUrl>Error! Hyperlink reference not valid.></NavigateUrl>
              <AlternateText>Order flowers, roses, gifts and more</AlternateText>
              <Impressions>20</Impressions>
              <keywords>flowers</keywords>
       </Ad>
       <Ad>
              <ImageUrl>rose2.jpg</ImageUrl>
              <NavigateUrl>Error! Hyperlink reference not valid.></NavigateUrl>
              <AlternateText>Order roses and flowers</AlternateText>
              <Impressions>20</Impressions>
```

```
            <keywords>gifts</keywords>
        </Ad>
        <Ad>
            <ImageUrl>rose3.jpg</ImageUrl>
            <NavigateUrl>Error! Hyperlink reference not valid.></NavigateUrl>
            <AlternateText>Send flowers to Russia</AlternateText>
            <Impressions>20</Impressions>
            <keywords>russia</keywords>
        </Ad>
</Advertisements>


/**
Practical no. 4(b)
Aim :-  b. Create Web Form to demonstrate use User Controls.
 **/

usercontrol.ascx :- (In Design[Source Code])/** for creating "WebUserControl.ascx" do same process
as creating webform for that right click on created your appln go to 'add' seen at end 'WebUserControl'
or go to 'new items' and search it **/
<%@ Control Language="C#" AutoEventWireup="true" CodeBehind="usercontrol.ascx.cs"
Inherits="Pract4b.usercontrol" %>//Change the Inherits=" "while creating appln put that in all
Design Source Code".usercontrol" [Remember that only]
<p>
     </p>
<p>
    This is User Control</p>
<p>
    Name:
    <asp:TextBox ID="txtName" runat="server"></asp:TextBox>
</p>
<p>
    City:
    <asp:TextBox ID="txtCity" runat="server"></asp:TextBox>
</p>
<p>
    <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Save" />
</p>
<p>
    <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
</p>

usercontrol.ascx.cs :-
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract4b
{
    public partial class usercontrol : System.Web.UI.UserControl
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            Label1.Text = " Your Name is " + txtName.Text + " and your are from " + txtCity.Text;
        }
    }
```

```
}
```

usercontrol.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="usercontrol.aspx.cs"
Inherits="Pract4b.usercontrol1" %>//Change the Inherits=" "while creating appln put that in all
Design Source Code".usercontrol1" [Remember that only]
<%@ Register Src="~/usercontrol.ascx" TagName="student" TagPrefix="uc" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <uc:Student ID ="studentcontrol" runat="server" />
        </div>
    </form>
</body>
</html>


/**
Practical no. 5(a)
Aim :-  a. Create a web application to demonstrate the use Session.
 **/
```

session.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="session.aspx.cs"
Inherits="Pract5a.session" %>//Change the Inherits=" "while creating appln put that in all Design
Source Code".session" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            Providing Following details:<br />
            <br />
            Name:
            <asp:TextBox ID="name" runat="server"></asp:TextBox>
            <br />
            <br />
            City:
            <asp:TextBox ID="city" runat="server"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="getbtn" runat="server" OnClick="getbtn_Click" Text="Set Session
Values" />
            <br />
        </div>
    </form>
</body>
</html>
```

session.aspx.cs :-

```
using System;
using System.Collections.Generic;
```

```
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract5a
{
    public partial class session : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void getbtn_Click(object sender, EventArgs e)
        {
            Session["name"] = name.Text;
            Session["city"] = city.Text;
            Response.Redirect("next.aspx");
        }
    }
}
```

next.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="next.aspx.cs" Inherits="Pract5a.next"
%>//Change the Inherits=" "while creating appln put that in all Design Source Code".next" [Remember
that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            Session Values are as Follow<br />
            <br />
            Name:
            <asp:Label ID="lblname" runat="server"></asp:Label>
            <br />
            <br />
            City:
            <asp:Label ID="lblcity" runat="server"></asp:Label>
            <br />
            <br />
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Get Session
Value" />
        </div>
    </form>
</body>
</html>
```

next.aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract5a
{
    public partial class next : System.Web.UI.Page
    {
```

```
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            lblname.Text = Session["name"].ToString();
            lblcity.Text = Session["city"].ToString();
        }
    }
}


/**
Practical no. 5(b)
Aim :-  b. Create a web application to demonstrate the use of different types of Cookies.
 **/

cookie.aspx :- (In Design[Source Code])
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="cookie.aspx.cs"
Inherits="Pract5b.cookie" %>//Change the Inherits=" "while creating appln put that in all Design
Source Code".cookie" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            Demonstrate use of Cookies<br />
            <br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
            <br />
            <asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="~/page1.aspx">Go to
Page1</asp:HyperLink>
            <br />
        </div>
    </form>
</body>
</html>

cookie.aspx.cs :-
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract5b
{
    public partial class cookie : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            HttpCookie cookies2 = new HttpCookie("visit");
            cookies2.Value = "1";
            Response.Cookies.Add(cookies2);
            Label1.Text = cookies2.Value;
```

```
        }
    }
}
```

page1.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="page1.aspx.cs" Inherits="Pract5b.page1"
%>//Change the Inherits=" "here do the same as was told in previous".page1" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            Welcome on Page1<br />
            <br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
            <br />
            <asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="~/page2.aspx">Go to
Page2</asp:HyperLink>
            <br />
        </div>
    </form>
</body>
</html>
```

page1.aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract5b
{
    public partial class page1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            int co_val = Convert.ToInt32(Request.Cookies["visit"].Value) + 1;
            HttpCookie cookies2 = new HttpCookie("visit");
            cookies2.Value = co_val.ToString();
            Response.Cookies.Add(cookies2);
            Label1.Text = co_val.ToString();
        }
    }
}
```

page2.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="page2.aspx.cs" Inherits="Pract5b.page2"
%>//Change the Inherits=" "here do the same as was told in previous".page2" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
```

```
        <div>
            <br />
            Welcome on Page2<br />
            <br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
            <br />
            <asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="~/page1.aspx">Go to
Page1</asp:HyperLink>
            <br />
            <br />
            <asp:HyperLink ID="HyperLink2" runat="server" NavigateUrl="~/cookieexp.aspx">Go to
Logout</asp:HyperLink>
            <br />
        </div>
    </form>
</body>
</html>
```

page2aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract5b
{
    public partial class page2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            int co_val = Convert.ToInt32(Request.Cookies["visit"].Value) + 1;
            HttpCookie cookies1 = new HttpCookie("visit");
            cookies1.Value = co_val.ToString();
            Response.Cookies.Add(cookies1);
            Label1.Text = co_val.ToString();
            Response.Cookies["visit"].Expires = DateTime.Now.AddSeconds(5);
        }
    }
}
```

cookieexp.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="cookieexp.aspx.cs"
Inherits="Pract5b.cookieexp" %>//Change the Inherits=" "here do the same as was told in
previous".cookieexp" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            Cookie Expires Successfully<br />
            <br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
        </div>
    </form>
```

```
</body>
</html>
```

cookieexp.aspx.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract5b
{
    public partial class cookieexp : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Request.Cookies["visit"] == null)
            {
                Label1.Text = "No Cookies Found";
            }
        }
    }
}
```

```
/**
Practical no. 9(a)
Aim :-  a. Create a web application to demonstrate use of various Ajax controls.
 **/
```

ajax.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ajax.aspx.cs" Inherits="Pract9a.ajax"
%>//Change the Inherits=" "while creating appln put that in all Design Source Code".ajax" [Remember
that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <br />
            <asp:ScriptManager ID="ScriptManager1" runat="server">
            </asp:ScriptManager>
            <br />
            <asp:Timer ID="Timer1" runat="server" Interval="1000" OnTick="Timer1_Tick">
            </asp:Timer>
            <br />
            <asp:Label ID="Label1" runat="server"></asp:Label>
            <br />
        </div>
    </form>
</body>
</html>
```

ajax.aspx.cs :-

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

```
using System.Web.UI;
using System.Web.UI.WebControls;
namespace Pract9a
{
    public partial class ajax : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            Label1.Text = System.DateTime.Now.ToString();
        }
        protected void Timer1_Tick(object sender, EventArgs e)
        {
        }
    }
}
```

```
/**
Practical no. 10(a)
Aim :-  a. Create a web application to demonstrate JS Bootstrap Button.
 **/
```

bootstrap.aspx :- (In Design[Source Code])

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="bootstrap.aspx.cs"
Inherits="Pract10a.bootstrap" %>//Change the Inherits=" "while creating appln put that in all Design
Source Code".bootstrap" [Remember that only]
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
      <script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
        <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.0.3/css/bootstrap.min.css"
media="screen" />
        <script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.0.3/js/bootstrap.min.js"></scr
ipt>
</head>
<body>
    <form id="form1" runat="server">
        <button type="button" class="btn btn-info btn-lg" data-toggle="modal"
data-target="#myModal">Open Modal</button>
        <div id="myModal" class="modal fade" role="dialog">
        <div class="Modal-dialog">
            <div class="modal-content">
                <div class="modal-header">
                    <button type="button" class="close" data-dismiss="modal">&times;</button>
                    <h4 class="modal-title">Hi this is my first modal</h4>
                </div>
                <div class="modal-body">
                    <p>Bootstrap is the Best...!</p>
                </div>
                <div class="modal-footer">
                    <button type="button" class="btn btn-default"
data-dismiss="modal">Close</button>
                </div>
             </div>
        </div>
        </div>
    </form>
```

```
</body>
</html>
```