

## PRACTICAL 1 :

**A] Create an application to print on screen the output of adding , subtracting , multiplying and dividing two numbers entered by the user in C#.**

```
using System;
public class practical1A
{
    public static void Main(string[] args)
    {
        Console.Write("Enter the first number: ");
        double num1 = Convert.ToDouble(Console.ReadLine());
        Console.Write("Enter the second number: ");
        double num2 = Convert.ToDouble(Console.ReadLine());
        Console.WriteLine("\nResults:");
        Console.WriteLine($"{num1} + {num2} = {num1+num2}");
        Console.WriteLine($"{num1} - {num2} = {num1-num2}");
        Console.WriteLine($"{num1} * {num2} = {num1*num2}");
        Console.WriteLine($"{num1} / {num2} = {num1/num2}");
    }
}
```

### OUTPUT :

```
Enter the first number: 10
Enter the second number: 2
Results:
10 + 2 = 12
10 - 2 = 8
10 * 2 = 20
10 / 2 = 5
```

**B] Create an application to print Floyd's triangle till n rows in C#.**

```
using System;
public class practical1A
{
    public static void Main(string[] args)
    {
        Console.Write("Enter the number of rows for Floyd's triangle: ");
        int count = 0;
        int n = Convert.ToInt32(Console.ReadLine());
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<=i;j++)
```

```

        {
            Console.Write(count++);
        }
        Console.WriteLine();
    } }
}

```

### OUTPUT :

Enter the number of rows for Floyd's triangle: 5

0

1 2

3 4 5

6 7 8 9

10 11 12 13 14

### C] Create an application to demonstrate following operations i. Generate Fibonacci series. ii. Test for prime numbers.

```

using System;
public class practical1A
{
    public static void Main(string[] args)
    {
        Console.Write("Enter the number of terms for Fibonacci series: ");
        int n = Convert.ToInt32(Console.ReadLine());
        int f = 0;
        int s = 1;
        Console.Write(f);
        Console.Write(" "+s);
        for(int i =2;i<n;i++)
        {
            int sum = f + s;
            Console.Write(" "+sum);
            f=s;
            s =sum;
        }
    }
}

```

### OUTPUT :

Enter the number of terms for Fibonacci series: 6

0 1 1 2 3 5

## PRACTICAL 2 :

**A] Create a simple application to demonstrate the concepts boxing and unboxing.**

```
using System;
public class HelloWorld
{
    public static void Main(string[] args)
    {
        int value1 = 10;
        double value2 = 10.40;

        object boxing1 = value1;
        object boxing2 = value2;

        int unboxing1 = (int)boxing1;
        double unboxing2 = (double)boxing2;

        Console.WriteLine("Boxing Value 1: " + boxing1);
        Console.WriteLine("Boxing Value 2: " + boxing2);
        Console.WriteLine("Unboxing Value 1: " + unboxing1);
        Console.WriteLine("Unboxing Value 2: " + unboxing2);
    }
}
```

### OUTPUT :

```
Boxing Value 1: 10
Boxing Value 2: 10.4
Unboxing Value 1: 10
Unboxing Value 2: 10.4
```

**B] Create a simple application to perform addition and subtraction using delegate.**

```
using System;

public class HelloWorld
{
    public delegate void Operation(int a, int b);
    public static void Main(string[] args)
    {
        Console.Write("Enter the first number: ");
        int num1 = Convert.ToInt32(Console.ReadLine());
```

```

        Console.WriteLine("Enter the second number: ");
        int num2 = Convert.ToInt32(Console.ReadLine());

        Operation obj1 = add;
        Operation obj2 = sub;
        obj1(num1,num2);
        obj2(num1,num2);

    }
    public static void add(int a,int b)
    {
        Console.WriteLine("Addition : "+(a+b));
    }
    public static void sub(int a,int b)
    {
        Console.WriteLine("Substraction : "+(a-b));
    }
}

```

### OUTPUT :

```

Enter the first number: 5
Enter the second number: 3
Addition : 8
Substraction : 2

```

### C] Create a simple application to demonstrate use of the concepts of interfaces.

```

using System;
interface I1
{
    void addition(int a,int b);
}
interface I2
{
    void subtraction(int a, int b);
}
public class Cal:I1,I2
{
    public void addition(int a,int b)
    {
        Console.WriteLine("Addition : "+(a+b));
    }
    public void subtraction(int a, int b)
    {

```

```
        Console.WriteLine("Subtraction : "+(a-b));  
    }  
}
```

```
public class Program  
{  
    public static void Main(string[] args)  
    {  
        Cal obj = new Cal();  
        obj.addition(10,20);  
        obj.subtraction(20,10);  
    }  
}
```

### **OUTPUT :**

Addition : 30  
Subtraction : 10

### PRACTICAL 3 :

A] Create a simple web page with various server controls to demonstrate setting and use of their properties. (Example : AutoPostBack).

practical3A.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
    Inherits="AWP_practicals_1.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:DropDownList ID="dropdownlist1" runat="server" AutoPostBack="true"
OnSelectedIndexChanged="dropdownlist1_SelectedIndexChanged">
                <asp:ListItem Value="400709">Koparkhairne</asp:ListItem>
                <asp:ListItem Value="400701">Vashi</asp:ListItem>
                <asp:ListItem Value="400710">Ghansoli</asp:ListItem>
            </asp:DropDownList>
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
            <asp:RadioButtonList ID="RadioButtonList1" runat="server"
OnSelectedIndexChanged="RadioButtonList1_SelectedIndexChanged"
AutoPostBack="true">
                <asp:ListItem Text="Red" Value="Red"></asp:ListItem>
                <asp:ListItem Text="Pink" Value="Pink"></asp:ListItem>
                <asp:ListItem Text="Yellow" Value="Yellow"></asp:ListItem>
                <asp:ListItem Text="Blue" Value="Blue"></asp:ListItem>
            </asp:RadioButtonList>
            <asp:RadioButtonList ID="RadioButtonList2" runat="server"
OnSelectedIndexChanged="RadioButtonList2_SelectedIndexChanged" AutoPostBack="true">
                <asp:ListItem > Times New Roman</asp:ListItem>
                <asp:ListItem > Jokerman</asp:ListItem>
                <asp:ListItem > Arial</asp:ListItem>
            </asp:RadioButtonList>
            <asp:RadioButtonList ID="RadioButtonList3" AutoPostBack="true" runat="server"
OnSelectedIndexChanged="RadioButtonList3_SelectedIndexChanged">
                <asp:ListItem > Small</asp:ListItem>
                <asp:ListItem > Medium</asp:ListItem>
                <asp:ListItem > Large</asp:ListItem>
            </asp:RadioButtonList>
        </div>
    </form>
</body>
</html>
```

```

        <asp:ListItem>XLarge</asp:ListItem>
    </asp:RadioButtonList>

    <asp:CheckBox ID="CheckBox1" AutoPostBack="true" Text="Bold" runat="server"
    OnCheckedChanged="CheckBox1_CheckedChanged" />
    <asp:CheckBox ID="CheckBox2" AutoPostBack="true" Text="Underline"
    runat="server" OnCheckedChanged="CheckBox2_CheckedChanged" />
    <asp:CheckBox ID="CheckBox3" AutoPostBack="true" Text="Italic" runat="server"
    OnCheckedChanged="CheckBox3_CheckedChanged" />

</div>
</form>
</body>
</html>

```

practical3A.aspx.cs:

```

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

namespace AWP_practicals_1
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void dropdownlist1_SelectedIndexChanged(object sender, EventArgs e)
        {
            Label1.Text = dropdownlist1.SelectedValue;
        }

        protected void RadioButtonList1_SelectedIndexChanged(object sender, EventArgs e)
        {
            if (RadioButtonList1.SelectedIndex == 0)
            {
                Label1.ForeColor = System.Drawing.Color.Red;
            }
            if (RadioButtonList1.SelectedIndex == 1)
            {

```

```

        Label1.ForeColor = System.Drawing.Color.Pink;

    }
    if (RadioButtonList1.SelectedIndex == 2)
    {
        Label1.ForeColor = System.Drawing.Color.Yellow;

    }
    if (RadioButtonList1.SelectedIndex == 3)
    {
        Label1.ForeColor = System.Drawing.Color.Blue;

    }

}

protected void RadioButtonList2_SelectedIndexChanged(object sender, EventArgs e)
{
    Label1.Font.Name = RadioButtonList2.SelectedValue;
}

protected void RadioButtonList3_SelectedIndexChanged(object sender, EventArgs e)
{
    if (RadioButtonList3.SelectedIndex == 0)
    {
        Label1.Font.Size = FontUnit.Small;
    }
    if (RadioButtonList3.SelectedIndex == 1)
    {
        Label1.Font.Size = FontUnit.Medium;
    }
    if (RadioButtonList3.SelectedIndex == 2)
    {
        Label1.Font.Size = FontUnit.Large;
    }
    if (RadioButtonList3.SelectedIndex == 3)
    {
        Label1.Font.Size = FontUnit.XLarge;
    }

}

protected void CheckBox1_CheckedChanged(object sender, EventArgs e)
{
    if (CheckBox1.Checked)
    {

```



```

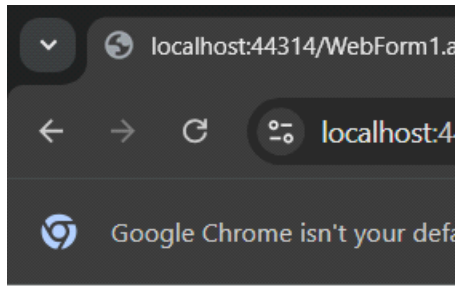
        Label1.Font.Bold = true;
    }
    else
    {
        Label1.Font.Bold = false;
    }
}

protected void CheckBox2_CheckedChanged(object sender, EventArgs e)
{
    if (CheckBox2.Checked)
    {
        Label1.Font.Underline = true;
    }
    else
    {
        Label1.Font.Underline = false;
    }
}

protected void CheckBox3_CheckedChanged(object sender, EventArgs e)
{
    if (CheckBox3.Checked)
    {
        Label1.Font.Italic = true;
    }
    else
    {
        Label1.Font.Italic = false;
    }
}
}
}
}

```

**OUTPUT :**



Ghansoli **400710**

☒ Red  
☐ Pink  
☐ Yellow  
☐ Blue  
☐ Times New Roman  
☒ Jokerman  
☐ Arial  
☐ Small  
☒ Medium  
☐ Large  
☐ XLarge  
☒ Bold ☐ Underline ☐ Italic

**B] Create a simple application to demonstrate your vacation using calendar control.**

practical3B.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Practical3B.aspx.cs"
    Inherits="AWP_project.Practical3B" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Calendar ID="Calendar1" runat="server" OnDayRender="Calendar1_DayRender"
                OnSelectionChanged="Calendar1_SelectionChanged"></asp:Calendar>
```

```

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

    </div>
</form>
</body>
</html>

```

practical3B.aspx.cs:

```

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

namespace AWP_project
{
    public partial class Practical3B : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }

        protected void Calendar1_SelectionChanged(object sender, EventArgs e)
        {
            Response.Write(Calendar1.SelectedDate.ToLongDateString());
        }

        protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
        {
            if (e.Day.Date.Day == 19 && e.Day.Date.Month == 9)
            {
                Label obj = new Label();
                obj.Text = "BON DAY";
                e.Cell.Controls.Add(obj);
            }
            DateTime t1 = new DateTime(2024, 09, 01);
            DateTime t2 = t1.AddDays(5);
            Calendar1.SelectedDates.SelectRange(t1, t2);

            TimeSpan t = new DateTime(2024, 08, 07) - DateTime.Now;
            Label1.Text = ("no of days left:" + t.Days);
        }
    }
}

```

**OUTPUT :**

01 September 2024

September 2024						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u> BON DAY	<u>20</u>	<u>21</u>
<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>
<u>29</u>	<u>30</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>

no of days left:-34

### C] Demonstrate the use of Treeview operations on the web form.

Master page:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="WebApplication5.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>
```

```
<asp:Table ID="Table1" runat="server" Height="166px" Width="312px">
```

```
<asp:TableRow>
```

```
<asp:TableCell>
```

```
<asp:TreeView ID="TreeView1" runat="server">
```

```
<Nodes>
```

```
<asp:TreeNode Text="TYIT SEM 5">
```

```

        <asp:TreeNode Text="NGT"
NavigateUrl="~/WebForm1.aspx"></asp:TreeNode>

        <asp:TreeNode Text="AWP"
NavigateUrl="~/WebForm2.aspx"></asp:TreeNode>

        <asp:TreeNode Text="AI"
NavigateUrl="~/WebForm3.aspx"></asp:TreeNode>

    </asp:TreeNode>

</Nodes>

</asp:TreeView>

</asp:TableCell>

<asp:TableCell>

        <asp:ContentPlaceHolder ID="ContentPlaceHolder1"
runat="server"></asp:ContentPlaceHolder>

    </asp:TableCell>

</asp:TableRow>

</asp:Table>

</div>

</form>

</body>

</html>

```

Webform1.aspx:

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication5.WebForm1" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

    NGT

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

    Next Generation Technologies

```

</asp:Content>

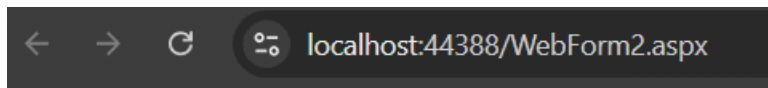
### Webform2.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
    AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
    Inherits="WebApplication5.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    AWP
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    Advanced Web Programming
</asp:Content>
```

### Webform3.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
    AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
    Inherits="WebApplication5.WebForm3" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    AI
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    Artificial Intelligence
</asp:Content>
```

### OUTPUT :



AWP

TYIT SEM 5

NGT

AWP

AI

Advanced Web Programming

## PRACTICAL 4 :

**A) Create a Registration form to demonstrate use of various Validation controls.**

WebForm4.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm4.aspx.cs"
    Inherits="AWP_practicals_1.WebForm4" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Enter Name : <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
                ErrorMessage="Enter valid name !!!" ControlToValidate="TextBox1"
                ValidationGroup="vg1">
            </asp:RequiredFieldValidator>

            <br />

            Enter Age : <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <asp:RangeValidator ID="RangeValidator1" runat="server" ErrorMessage="Enter valid
                age !!!" MinimumValue="20" MaximumValue="50" ControlToValidate="TextBox2"
                Type="Integer" ValidationGroup="vg1">
            </asp:RangeValidator>

            <br />

            Enter Email : <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
            <asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"
                ErrorMessage="Enter valid email !!!" ValidationExpression="^[^@\s]+@[^@\s]+\.[^@\s]+$"
                ControlToValidate="TextBox3" ValidationGroup="vg1">
            </asp:RegularExpressionValidator>

            <br />

            Enter Password: <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
                ErrorMessage="enter valid password" ControlToValidate="TextBox4">
```

```

ValidationGroup="vg1">
    </asp:RequiredFieldValidator>

    <br />

    Re-Enter password : <asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
    <asp:CompareValidator ID="CompareValidator1" runat="server"
ErrorMessage="Passwords do not match !!!" ControlToCompare="TextBox4"
ControlToValidate="TextBox5" Operator="Equal" ForeColor="Red" ValidationGroup="vg1">
    </asp:CompareValidator>
    <br />
    <asp:Button ID="Button1" runat="server" Text="Button

" OnClick="Button1_Click" ValidationGroup="vg1" />
    </div>
</form>
</body>
</html>

```

WebForm4.aspx.cs:

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace pract4a
{
    public partial class WebForm4 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            if (Page.IsValid)
            {
                Response.Write("Success");
            }
        }
    }
}

```

**OUTPUT :**



Enter Name:   
 Enter Age:  enter valid age  
 Enter Email:  enter valid email  
 Enter Password:   
 ReEnter password:  Passwords do not match.

Success  
 Enter Name:   
 Enter Age:   
 Enter Email:   
 Enter Password:   
 ReEnter password:

## B) Create Web Form to demonstrate use of Adrotator Control.

WebForm5.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm5.aspx.cs"
    Inherits="AWP_practicals_1.WebForm5" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:AdRotator ID="AdRotator1" runat="server"
                AdvertisementFile="~/FileName.xml"/>
        </div>
    </form>
</body>
</html>
```

FileName.xml:

```
<?xml version="1.0" encoding="utf-8" ?>

<Advertisements>
    <Ad>
        <NavigateUrl> https://github.com/logos</NavigateUrl>
        <ImageUrl>https://encrypted-
```

```

tbn0.gstatic.com/images?q=tbn:ANd9GcSbjq9Ii13d6hx5a9kyLnC5A8A96LDSaSZv_w&s</Image
Url>
    <AlternateText>gitub</AlternateText>
    <Impressions>20</Impressions>
    <Keywords>google</Keywords>
</Ad>
<Ad>
    <NavigateUrl>https://in.linkedin.com/</NavigateUrl>
    <ImageUrl>https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcS4fcdsIUPUgmbvGaP-
RC4RbHYdVtoN_fm8aya_8gOXI2BRtCIESO-
0_jgWTtKtIVmOQKs&usqp=CAU</ImageUrl>
    <AlternateText>linkedin</AlternateText>
    <Impressions>10</Impressions>
    <Keywords>google</Keywords>
</Ad>
<Ad>
    <NavigateUrl> https://x.com/</NavigateUrl>
    <ImageUrl>https://img.freepik.com/free-vector/new-2023-twitter-logo-x-icon-
design_1017-
45418.jpg?size=338&ext=jpg&ga=GA1.1.2008272138.1726012800&sem=ais_hybrid</Image
Url>
    <AlternateText>X</AlternateText>
    <Impressions>5</Impressions>
    <Keywords>google</Keywords>
</Ad>
</Advertisements>

```

## OUTPUT :



## C] Create Web Form to demonstrate use User Controls

practical4C.aspx:

```

<%@ Control Language="C#" AutoEventWireup="true" CodeBehind="practical4C.ascx.cs"
    Inherits="AWP_project.practical4C" %>
<asp:Calendar ID="Calendar1" runat="server"
    OnSelectionChanged="Calendar1_SelectionChanged"></asp:Calendar>
<asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>

```

practical4C.aspx.cs:

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

namespace AWP_project
{
    public partial class practical4C : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            Label1.Text = Calendar1.SelectedDate.ToLongDateString();
        }
    }
}
```

webform1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
    Inherits="AWP_project.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            DOB <uc1:tyit runat="server" id="tyit" />
        </div>
    </form>
</body>
</html>
```

webform2.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
    Inherits="AWP_project.WebForm2" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
```

```

</head>
<body>
  <form id="form1" runat="server">
    <div>
      DOJ<uc1:tyit runat="server" id="tyit" />
    </div>
  </form>
</body>
</html>

```

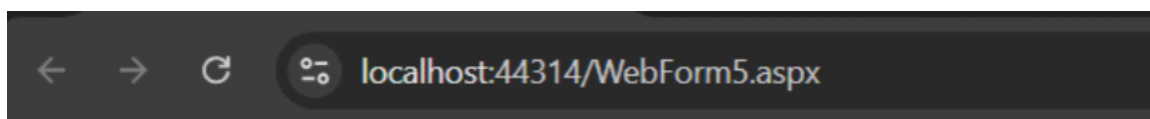
webform3.aspx:

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
  Inherits="AWP_project.WebForm3" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      DOP<uc1:tyit runat="server" id="tyit" />
    </div>
  </form>
</body>
</html>

```

**OUTPUT :**



DOB

September 2024						
≤						≥
Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	31
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

29 August 2024

## PRACTICAL 5 :

**A] Create Web Form to demonstrate use of Website Navigation controls.  
Create a web application to demonstrate use of Master Page and content page.**

Master page:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site2.master.cs"
Inherits="WebApplication5.Site2" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

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

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:Table ID="Table1" runat="server" Height="391px" GridLines="Both"
Width="589px">
```

```
<asp:TableRow>
```

```
<asp:TableCell ColumnSpan="2">TYIT MASTER PAGE</asp:TableCell>
```

```
</asp:TableRow>
```

```
<asp:TableRow>
```

```
<asp:TableCell>
```

```
<asp:Menu ID="Menu1" runat="server">
```

```
<Items>
```

```
<asp:MenuItem Text="SEM V">
```

```
<asp:MenuItem Text="AWP"
NavigateUrl="~/WebForm5.aspx"></asp:MenuItem>
```

```
<asp:MenuItem Text="NGT"
```

```

NavigateUrl="~/WebForm6.aspx"></asp:MenuItem>
        <asp:MenuItem Text="AI"
NavigateUrl="~/WebForm7.aspx"></asp:MenuItem>
        <asp:MenuItem Text="IOT"
NavigateUrl="~/WebForm8.aspx"></asp:MenuItem>
    </asp:MenuItem>
</Items>
</asp:Menu>
</asp:TableCell>
<asp:TableCell>
    <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
    </asp:ContentPlaceHolder>
</asp:TableCell>
</asp:TableRow>
<asp:TableRow>
    <asp:TableCell ColumnSpan="2">
        Copyright@2003
    </asp:TableCell>
</asp:TableRow>
</asp:Table>
</div>
</form>
</body>
</html>

```

Webform5.aspx:

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site2.Master"
AutoEventWireup="true" CodeBehind="WebForm5.aspx.cs"
Inherits="WebApplication5.WebForm5" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

```

AWP

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

Advanced Web Programming

</asp:Content>

Webform6.aspx:

<%@ Page Title="" Language="C#" MasterPageFile="~/Site2.Master"  
AutoEventWireup="true" CodeBehind="WebForm6.aspx.cs"  
Inherits="WebApplication5.WebForm6" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">  
NGT

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">  
Next Generation Technologies

</asp:Content>

Webform7.aspx:

<%@ Page Title="" Language="C#" MasterPageFile="~/Site2.Master"  
AutoEventWireup="true" CodeBehind="WebForm7.aspx.cs"  
Inherits="WebApplication5.WebForm7" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">  
AI

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">  
Artificial Intelligence

</asp:Content>

Webform8.aspx:

<%@ Page Title="" Language="C#" MasterPageFile="~/Site2.Master"  
AutoEventWireup="true" CodeBehind="WebForm8.aspx.cs"  
Inherits="WebApplication5.WebForm8" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">  
IOT

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">  
Internet of Things

</asp:Content>

**OUTPUT :**

AWP

TYIT MASTER PAGE	
SEM V ▶ AWP NGT AI IOT	Advanced Web Programming
Copyright@2003	

**B) Create a simple application to demonstrate your vacation using calendar control.**

WebForm9.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm9.aspx.cs"
    Inherits="WebApplication5.WebForm9" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

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

```
<asp:Button ID="Button1" runat="server" Text="Reload" OnClick="Button_click1"/>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

WebForm9.aspx.cs(ViewState):

```
using System;
```

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



```

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

namespace WebApplication5
{
    public partial class WebForm9 : System.Web.UI.Page
    {
        int x = 1;
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack)
            {
                TextBox1.Text = "0";
            }
        }

        protected void Button_click1(object sender, EventArgs e)
        {
            if (ViewState["a"] != null)
            {
                x = Convert.ToInt32(ViewState["a"]) + 1;
            }
            TextBox1.Text = x.ToString();
            ViewState["a"] = x;
        }
    }
}

```

### OUTPUT :



WebForm9.aspx.cs(Application):

```

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

```

```

using System.Web.UI.WebControls;

namespace WebApplication5
{
    public partial class WebForm9 : System.Web.UI.Page
    {
        int x = 1;
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack)
            {
                TextBox1.Text = "";
            }
        }

        protected void Button_click1(object sender, EventArgs e)
        {
            if (Application["a"] != null)
            {
                x = Convert.ToInt32(Application["a"]) + 1;
            }
            TextBox1.Text = x.ToString();
            Application["a"] = x;
        }
    }
}

```

## OUTPUT :



WebForm9.aspx.cs(Session):

```

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

namespace WebApplication5
{

```

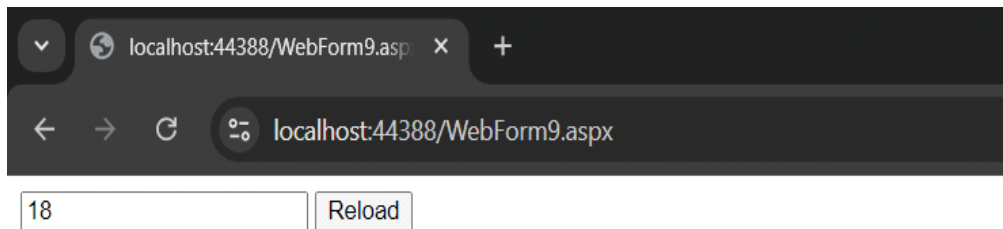
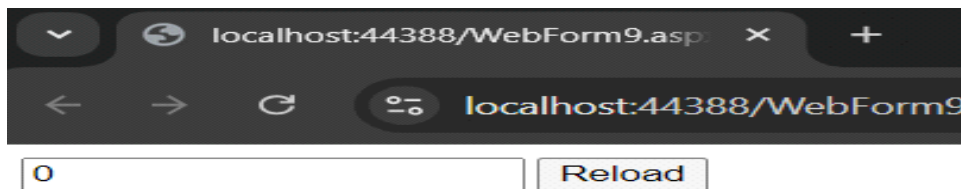
```

public partial class WebForm9 : System.Web.UI.Page
{
    int x = 1;
    protected void Page_Load(object sender, EventArgs e)
    {
        if(!IsPostBack)
        {
            TextBox1.Text = "0";
        }
    }

    protected void Button_click1(object sender, EventArgs e)
    {
        if (Session["a"] != null)
        {
            x = Convert.ToInt32(Session["a"]) + 1;
        }
        TextBox1.Text = x.ToString();
        Session["a"] = x;
    }
}

```

**OUTPUT :**



## PRACTICAL 6:

A] Create a web application for inserting and deleting records from a database.

WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
    Inherits="WebApplication6.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            data inserted
            <br />
            emp id<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            name<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            salary<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
            age<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="insert" OnClick="Button1_Click"/>
            <asp:Button ID="Button2" runat="server" Text="delete" OnClick="Button2_Click"/>
        </div>
    </form>
</body>
</html>
```

WebForm1.aspx.cs:

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

namespace WebApplication6
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
    }
}
```

```

    {
    }
}

protected void Button1_Click(object sender, EventArgs e)
{
    SqlConnection con = new SqlConnection("Data Source=SQL;Initial Catalog=tybscit;User
ID=user1;Password=user1");
    SqlCommand cmd = new SqlCommand("insert into emp
values(@Id,@ename,@salary,@age)", con);
    cmd.Parameters.AddWithValue("@Id", TextBox1.Text);
    cmd.Parameters.AddWithValue("@ename", TextBox2.Text);
    cmd.Parameters.AddWithValue("@salary", TextBox3.Text);
    cmd.Parameters.AddWithValue("@age", TextBox4.Text);
    con.Open();
    cmd.ExecuteNonQuery();
    Response.Write("data inserted");
    con.Close();
}

protected void Button2_Click(object sender, EventArgs e)
{
    SqlConnection con = new SqlConnection("Data Source=SQL;Initial
Catalog=tybsc123;User ID=user1;Password=user1");
    SqlCommand cmd = new SqlCommand("delete from emp where Id=@Id", con);
    cmd.Parameters.AddWithValue("@Id", TextBox1.Text);
    con.Open();
    cmd.ExecuteNonQuery();
    Response.Write("data deleted");
    con.Close();
}
}

```

## OUTPUT :

data inserted

emp id  name  salary  age

Id	ename	salary	age
1	sumit	199999	20
2	shivam	200000	21
3	sachin	200001	21
4	akash	200002	20
5	ram	200003	20

localhost:44367/WebForm1.aspx

data deleted  
emp id  name  salary  age

Id	ename	salary	age
1	sumit	199999	20
2	shivam	200000	21
3	sachin	200001	21
4	akash	200002	20

## B] Create a web application to display Using Disconnected Data Access and Databinding using GridView

WebForm2.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
    Inherits="WebApplication6.WebForm2" %>
```

```
<!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 ID="GridView1" runat="server"></asp:GridView>
        </div>
    </form>
</body>
</html>
```

WebForm2.aspx.cs:

```
using System;using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
namespace WebApplication6
{
    public partial class WebForm2 : System.Web.UI.Page
```

```

    {
        protected void Page_Load(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection("Data Source=SQL;Initial
Catalog=tybsc123;User ID=user1;Password=user1");
            SqlDataAdapter ad = new SqlDataAdapter("select * from emp", con);
            DataSet ds = new DataSet();
            ad.Fill(ds);
            GridView1.DataSource = ds;
            GridView1.DataBind();
        }
    }
}

```

**OUTPUT :**



The screenshot shows a web browser window with the address bar displaying 'localhost:44367/WebForm2.aspx'. Below the browser window, a table is displayed with the following data:

Id	ename	salary	age
1	ram	1500000	21
2	shubham	2000000	21
3	sid	45999	20
4	akash	7800000	21
5	sachin	450000	21
6	a	10	1
7	avb	1000	20

**PRACTICAL 7:**

**A) Create a web application to demonstrate the use of different types of Cookies.**  
practical7A1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Practical7A1.aspx.cs"
    Inherits="AWP_project.Practical7A1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            Name : <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            class : <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="submit" OnClick="Button1_Click" />
        </div>
    </form>
</body>
</html>
```

practical7A2.aspx.cs:

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

```
namespace AWP_project
```

```
{
    public partial class Practical7A1 : System.Web.UI.Page
    {
        protected void Button1_Click(object sender, EventArgs e)
        {
            HttpCookie cook = new HttpCookie("Info");
            cook["name"] = TextBox1.Text;
            cook["class"] = TextBox2.Text;
            Response.Cookies.Add(cook);
            cook.Expires = DateTime.Now.AddDays(10);
            Response.Redirect("Practical7A2.aspx");
        }
    }
}
```



practical7A1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Practical7A2.aspx.cs"
    Inherits="AWP_project.Practical7A2" %>
```

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

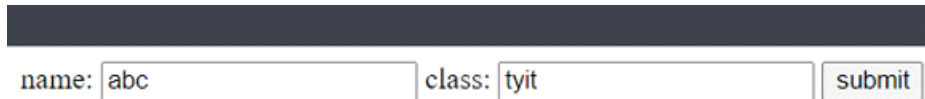
        </div>
    </form>
</body>
</html>
```

practical7A2.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace AWP_project
{
    public partial class Practical7A2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            HttpCookie cook = Request.Cookies["Info"];
            if (cook != null)
            {
                Label1.Text = cook["name"];
                Label2.Text = cook["age"];
            }
        }
    }
}
```

}

## OUTPUT :



A screenshot of a web form. It features a dark grey header bar. Below the header, there are two text input fields. The first field is labeled 'name:' and contains the text 'abc'. The second field is labeled 'class:' and contains the text 'tyit'. To the right of these fields is a button labeled 'submit'.

name: tyit class:abc    name: Label class:Label

**B] Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties.**

practical7B.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Practical7B1.aspx.cs"
    Inherits="AWP_project.Practical7B1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

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

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

```
    <asp:Button ID="Button1" runat="server" Text="submit" OnClick="Button1_Click" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

practical7B.aspx.cs:

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

```

using System.Web.UI.WebControls;
using System.Web.Security;
namespace prac7b
{
    public partial class Practical7B1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            if (FormsAuthentication.Authenticate(TextBox1.Text, TextBox2.Text))
            {
                FormsAuthentication.RedirectFromLoginPage(TextBox1.Text, false);
            }
            else
            {
                Response.Write("invalid credential");
                TextBox1.Text = "";
                TextBox2.Text = "";
            }
        }
    }
}

```

practical7B1.aspx:

```

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Practical7B1.aspx.cs"
    Inherits="AWP_project.Practical7A1" %>

```

```

<!DOCTYPE html>

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            welcome
        </div>
    </form>
</body>
</html>

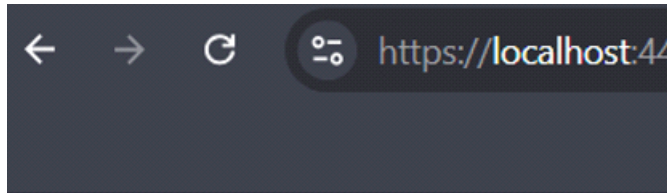
```

## practical7B1.config

```
<system.web>
<authentication mode="Forms">
  <forms loginUrl="Practical7B1.aspx" defaultUrl="Practical7B1
.aspx" timeout="20" protection="None">
    <credentials passwordFormat="Clear">
      <user name="tyit" password="tyit"/>
    </credentials>
  </forms>
</authentication>
<authorization>
  <deny users="?" />
</authorization>
<compilation debug="true" targetFramework="4.7.2" />
<httpRuntime targetFramework="4.7.2" />
</system.web>
```

## OUTPUT :

userID:  password:



welcome