#### 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;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp3
  class Program
  {
    static void Main(string[] args)
       Console.WriteLine("A-09");
       Console.Write("Enter the first number: ");
       double num1 = Convert.ToDouble(Console.ReadLine());
       Console.Write("Enter the second number: ");
       double num2 = Convert.ToDouble(Console.ReadLine());
       double sum = num1 + num2;
       double difference = num1 - num2;
       double product = num1 * num2;
       double quotient = num1 / num2;
       Console.WriteLine("\nResults:");
       Console.WriteLine($"Addition: {num1} + {num2} = {sum}");
       Console.WriteLine($"Subtraction: {num1} - {num2} = {difference}");
       Console.WriteLine($"Multiplication: {num1} * {num2} = {product}");
       Console.WriteLine($"Division: {num1} / {num2} = {quotient}");
       Console.WriteLine("\nPress any key to exit...");
       Console.ReadKey();
    }
  }
}
```

```
A-09
Enter the first number: 12
Enter the second number: 2

Results:
Addition: 12 + 2 = 14
Subtraction: 12 - 2 = 10
Multiplication: 12 * 2 = 24
Division: 12 / 2 = 6

Press any key to exit...
```

b) Create an application to print Floyd's triangle till n rows in C#.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace ConsoleApp3
  class Program
     static void Main(string[] args)
       Console.WriteLine("A-09");
       // Ask the user for the number of rows
       Console. Write ("Enter the number of rows for Floyd's Triangle: ");
       int n = Convert.ToInt32(Console.ReadLine());
       int number = 1;
       Console.WriteLine("\nFloyd's Triangle:");
       // Generate Floyd's Triangle
       for (int i = 1; i \le n; i++)
          for (int j = 1; j \le i; j++)
          {
```

```
Console.Write(number + " ");
number++;
}
Console.WriteLine();
}

// Wait for the user to press a key before closing the console
Console.WriteLine("\nPress any key to exit...");
Console.ReadKey();
}
}
```

```
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A-09
Enter the number of rows for Floyd's Triangle: 5

Floyd's Triangle:
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

Press any key to exit...
```

c) Create an application to demonstrate following operations i. Generate Fibonacci series. ii. Test for prime numbers.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ConsoleApp3
{
   class Program
   {
```

```
static void Main(string[] args)
  Console.WriteLine("A-09");
  // Choose the operation
  Console.WriteLine("Choose an operation:");
  Console.WriteLine("1. Generate Fibonacci series");
  Console.WriteLine("2. Test for prime numbers");
  Console.Write("Enter your choice (1 or 2): ");
  int choice = Convert.ToInt32(Console.ReadLine());
  switch (choice)
  {
     case 1:
       GenerateFibonacci();
       break;
     case 2:
        TestPrimeNumbers();
       break;
     default:
       Console.WriteLine("Invalid choice.");
       break;
  }
  // Wait for the user to press a key before closing the console
  Console.WriteLine("\nPress any key to exit...");
  Console.ReadKey();
}
// Method to generate Fibonacci series
static void GenerateFibonacci()
  Console.Write("Enter the number of terms for the Fibonacci series: ");
  int terms = Convert.ToInt32(Console.ReadLine());
  int first = 0, second = 1, next;
  Console.WriteLine("\nFibonacci Series:");
  for (int i = 1; i \le terms; i++)
     Console.Write(first + " ");
     next = first + second;
     first = second;
     second = next;
  Console.WriteLine();
}
```

```
// Method to test for prime numbers within a range
static void TestPrimeNumbers()
{
   Console.Write("Enter the lower bound of the range: ");
  int lower = Convert.ToInt32(Console.ReadLine());
  Console.Write("Enter the upper bound of the range: ");
  int upper = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine($"\nPrime numbers between {lower} and {upper}:");
  for (int i = lower; i <= upper; i++)
  {
     if (IsPrime(i))
       Console.Write(i + " ");
  }
  Console.WriteLine();
}
// Helper method to check if a number is prime
static bool IsPrime(int number)
{
  if (number \leq 1)
     return false;
  if (number == 2)
     return true;
  for (int i = 2; i \le Math.Sqrt(number); i++)
     if (number \% i == 0)
       return false:
  }
  return true;
}
```

}

```
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A-09
Choose an operation:
1. Generate Fibonacci series
2. Test for prime numbers
Enter your choice (1 or 2): 1
Enter the number of terms for the Fibonacci series: 6
Fibonacci Series:
0 1 1 2 3 5

Press any key to exit...
```

```
A-09
Choose an operation:
1. Generate Fibonacci series
2. Test for prime numbers
Enter your choice (1 or 2): 2
Enter the lower bound of the range: 1
Enter the upper bound of the range: 5

Prime numbers between 1 and 5:
2 3 5

Press any key to exit...
```

### Practical-2

a) Create a simple application to demonstrate the concepts boxing and unboxing.

```
using System;
using System.Collections.Generic;
using System.Ling:
using System.Text;
using System.Threading.Tasks;
namespace ConsoleApp3
{
  class Program
    static void Main(string[] args)
       Console.WriteLine("A-09");
       // Boxing: Converting a value type to an object type
       int valueType = 123; // Value type
       object boxedValue = valueType; // Boxing
       Console.WriteLine("Boxing:");
       Console.WriteLine($"Original value (valueType): {valueType}");
       Console.WriteLine($"Boxed value (object): {boxedValue}");
       // Unboxing: Converting an object type back to a value type
       int unboxedValue = (int)boxedValue; // Unboxing
       Console.WriteLine("\nUnboxing:");
       Console.WriteLine($"Unboxed value (unboxedValue):
{unboxedValue}");
       // Modifying the original value and showing that boxed value is
unaffected
       valueType = 456;
       Console.WriteLine($"\nAfter modifying original value (valueType):
{valueType}");
       Console.WriteLine($"Boxed value remains unchanged:
{boxedValue}");
       // Wait for the user to press a key before closing the console
       Console.WriteLine("\nPress any key to exit...");
       Console.ReadKey();
    }
  }
}
```

```
A-09
Boxing:
Original value (valueType): 123
Boxed value (object): 123
Unboxing:
Unboxed value (unboxedValue): 123

After modifying original value (valueType): 456
Boxed value remains unchanged: 123

Press any key to exit...
```

b) Create a simple application to perform addition and subtraction using delegate.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp3
  class Program
    // Define a delegate that takes two integers and returns an integer
    delegate int OperationDelegate(int x, int y);
    static void Main(string[] args)
       Console.WriteLine("A-09");
       // Instantiate the delegate with the Addition and Subtraction methods
       OperationDelegate addDelegate = new OperationDelegate(Addition);
       OperationDelegate subtractDelegate = new
OperationDelegate(Subtraction);
       // Sample numbers to perform operations on
       int num1 = 10;
       int num2 = 5;
       // Perform addition using the delegate
       int addResult = addDelegate(num1, num2);
       Console.WriteLine($"Addition of {num1} and {num2} is: {addResult}");
       // Perform subtraction using the delegate
```

```
int subtractResult = subtractDelegate(num1, num2);
       Console.WriteLine($"Subtraction of {num1} and {num2} is:
{subtractResult}");
       // Wait for the user to press a key before closing the console
       Console.WriteLine("\nPress any key to exit...");
       Console.ReadKey();
     }
     // Method for addition
     static int Addition(int x, int y)
       return x + y;
     }
     // Method for subtraction
     static int Subtraction(int x, int y)
       return x - y;
     }
  }
}
```

```
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A-09

Addition of 10 and 5 is: 15

Subtraction of 10 and 5 is: 5

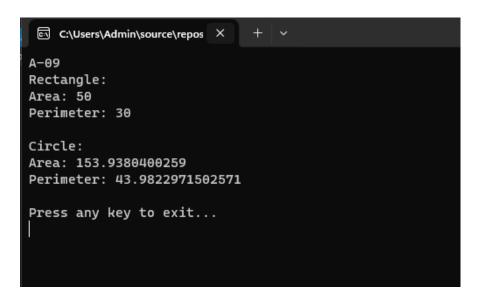
Press any key to exit...
```

c) Create a simple application to demonstrate use of the concepts of interfaces.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp3
  // Define an interface
  interface IShape
    double Area(); // Method to calculate area
    double Perimeter(); // Method to calculate perimeter
  }
  // Implement the interface in a class
  class Rectangle: IShape
    private double length;
    private double width;
    // Constructor
    public Rectangle(double length, double width)
       this.length = length;
       this.width = width;
    }
    // Implement the Area method
     public double Area()
       return length * width;
    }
    // Implement the Perimeter method
    public double Perimeter()
       return 2 * (length + width);
  // Implement the interface in another class
  class Circle: IShape
  {
    private double radius;
```

```
public Circle(double radius)
       this.radius = radius;
     }
     // Implement the Area method
     public double Area()
     {
       return Math.PI * radius * radius;
     }
     // Implement the Perimeter method
     public double Perimeter()
     {
       return 2 * Math.PI * radius;
  class Program
     static void Main(string[] args)
       Console.WriteLine("A-09");
       // Create instances of Rectangle and Circle
       IShape rectangle = new Rectangle(10, 5);
       IShape circle = new Circle(7);
       // Display the area and perimeter of the rectangle
       Console.WriteLine("Rectangle:");
       Console.WriteLine($"Area: {rectangle.Area()}");
       Console.WriteLine($"Perimeter: {rectangle.Perimeter()}");
       // Display the area and perimeter of the circle
       Console.WriteLine("\nCircle:");
       Console.WriteLine($"Area: {circle.Area()}");
       Console.WriteLine($"Perimeter: {circle.Perimeter()}");
       // Wait for the user to press a key before closing the console
       Console.WriteLine("\nPress any key to exit...");
       Console.ReadKey();
     }
  }
}
```

// Constructor

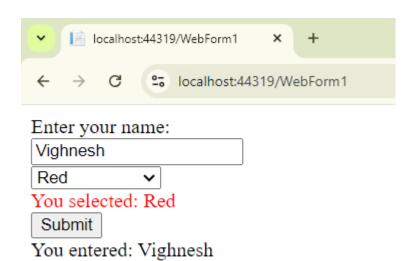


#### Practical-3

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

```
WebForm1.aspx
<<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication4.WebForm1"
%>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <vib>
       <!-- Label Control -->
       <asp:Label ID="Label1" runat="server" Text="Enter your
name:"></asp:Label><br />
       <!-- TextBox Control with AutoPostBack -->
       <asp:TextBox ID="TextBox1" runat="server" AutoPostBack="True"</pre>
OnTextChanged="TextBox1_TextChanged"></asp:TextBox><br />
       <!-- DropDownList Control with AutoPostBack -->
       <asp:DropDownList ID="DropDownList1" runat="server"
AutoPostBack="True"
OnSelectedIndexChanged="DropDownList1 SelectedIndexChanged">
         <asp:ListItem>Select a color</asp:ListItem>
         <asp:ListItem>Red</asp:ListItem>
         <asp:ListItem>Green</asp:ListItem>
         <asp:ListItem>Blue</asp:ListItem>
       </asp:DropDownList><br />
       <!-- Label to display the selected value -->
       <asp:Label ID="Label2" runat="server" Text=""></asp:Label><br />
       <!-- Button Control -->
       <asp:Button ID="Button1" runat="server" Text="Submit"
OnClick="Button1_Click" /><br />
       <!-- Label to display the TextBox content -->
       <asp:Label ID="Label3" runat="server" Text=""></asp:Label>
```

```
</div>
  </form>
</body>
</html>
WebForm1.aspx.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WebApplication4
  public partial class WebForm1 : System.Web.UI.Page
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void Button1_Click(object sender, EventArgs e)
       Label3.Text = "Form submitted with name: " + TextBox1.Text;
    }
    protected void TextBox1_TextChanged(object sender, EventArgs e)
    {
       Label3.Text = "You entered: " + TextBox1.Text;
    }
    protected void DropDownList1_SelectedIndexChanged(object sender,
EventArgs e)
    {
       Label2.Text = "You selected: " + DropDownList1.SelectedItem.Text;
       Label2.ForeColor =
System.Drawing.Color.FromName(DropDownList1.SelectedItem.Text);
  }
}
```

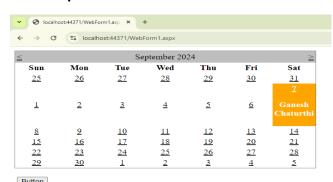


b) Create a simple application to demonstrate your vacation using calendar control.

```
WebForm1.aspx
      <@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm1.aspx.cs" Inherits="Calender.WebForm1" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <title></title>
      </head>
      <body>
         <form id="form1" runat="server">
             <asp:Calendar ID="Calendar1" runat="server"
      OnDayRender="AttachHolidays"
      OnSelectionChanged="Button1_Click"></asp:Calendar>
              <asp:Button ID="Button1" runat="server"
      OnClick="Button1_Click" Text="Button" />
              <br/>
             <asp:Label ID="Label1" runat="server"
      Text="Label"></asp:Label>
             <asp:Label ID="Label2" runat="server"
      Text="Label"></asp:Label>
             <br />
```

```
<asp:Label ID="Label3" runat="server"
      Text="Label"></asp:Label>
           </div>
         </form>
       </body>
       </html>
WebForm1.aspx.cs
      using System;
      using System.Collections.Generic;
      using System.Linq;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
      namespace Calender
         public partial class WebForm1 : System.Web.UI.Page
           Dictionary<string, string> holidays = new Dictionary<string,
      string>();
           protected void Page_Load(object sender, EventArgs e)
              holidays.Add("7", "Ganesh </br>
           protected void AttachHolidays(object sender,
      DayRenderEventArgs e)
           {
              if (e.Day.Date.Day == 7 && e.Day.Date.Month == 9)
                e.Cell.Controls.Add(new LiteralControl("" +
                holidays[e.Day.DayNumberText] + ""));
                e.Cell.BackColor = System.Drawing.Color.Blue;
                e.Cell.BackColor = System.Drawing.Color.Red;
                e.Cell.BackColor = System.Drawing.Color.Orange;
                e.Cell.Font.Bold = true;
             }
           protected void Button1_Click(object sender, EventArgs e)
              Label1.Text = "Your Selected Date:" +
      Calendar1.SelectedDate.ToString();
              Label2.Text = "Todays date:" +
      Calendar1.TodaysDate.ToShortDateString();
```

```
if (Calendar1.SelectedDate.ToShortDateString() ==
"07-09-2024")
{
     Label3.Text = "Ganpati chaturti";
     }
   }
}
```



Button Your Selected Date:07-09-2024 00:00:00 Todays date:21-09-2024 Ganpati chaturti

c) Create simple application to perform following operations:

### Code:

### WebForm1.aspx

```
<@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="Calender.WebForm1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <asp:TreeView ID="TreeView1" runat="server"</pre>
OnSelectedNodeChanged="TreeView1_SelectedNodeChanged">
    <Nodes>
       <asp:TreeNode Text="BSCIT" Value="BSCIT">
         <asp:TreeNode Text="FYBSCIT"
Value="FYBSCIT"></asp:TreeNode>
         <asp:TreeNode Text="SYBSCIT"
Value="SYBSCIT"></asp:TreeNode>
```

```
<asp:TreeNode Text="TYBSCIT"
      Value="TYBSCIT"></asp:TreeNode>
             </asp:TreeNode>
           </Nodes>
         </asp:TreeView>
         <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
      </form>
      </body>
      </html>
WebForm1.aspx.cs
      using System;
      using System.Collections.Generic;
      using System.Ling;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
      namespace Calender
        public partial class WebForm1 : System.Web.UI.Page
        {
           protected void Page_Load(object sender, EventArgs e)
           }
           protected void TreeView1_SelectedNodeChanged(object sender,
      EventArgs e)
             Label1.Text = "Selected Node: " +
      TreeView1.SelectedNode.Text;
           }
      }
```

#### Practical-4

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

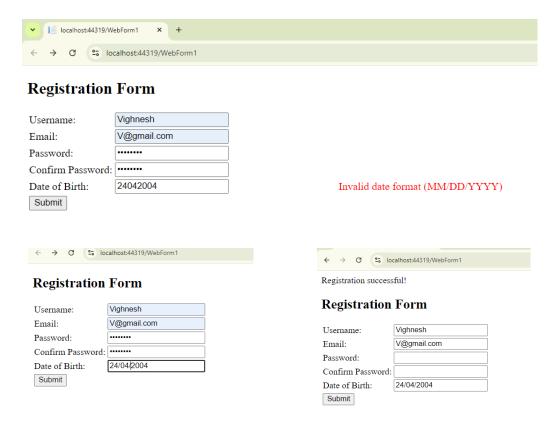
#### Code:

### Default.aspx:

```
<@@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs"
Inherits="Practical_4_Forms_.WebForm1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <h2>Registration Form</h2>
      <asp:Label ID="Label1" runat="server"
Text="Username:"
AssociatedControlID="TextBoxUsername"></asp:Label>
           <asp:TextBox ID="TextBoxUsername"
runat="server"></asp:TextBox>
           <asp:RequiredFieldValidator
ID="RequiredFieldValidatorUsername" runat="server"
             ControlToValidate="TextBoxUsername"
ErrorMessage="Username is required" ForeColor="Red" />
           <asp:Label ID="Label2" runat="server" Text="Email:"
AssociatedControlID="TextBoxEmail"></asp:Label>
           <asp:TextBox ID="TextBoxEmail"
runat="server"></asp:TextBox>
           <asp:RequiredFieldValidator
ID="RequiredFieldValidatorEmail" runat="server"
             ControlToValidate="TextBoxEmail"
ErrorMessage="Email is required" ForeColor="Red" />
             <asp:RegularExpressionValidator
ID="RegularExpressionValidatorEmail" runat="server"
             ControlToValidate="TextBoxEmail"
ErrorMessage="Invalid email format" ForeColor="Red"
```

```
ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*" />
           <asp:Label ID="Label3" runat="server"
Text="Password:"
AssociatedControlID="TextBoxPassword"></asp:Label>
           <asp:TextBox ID="TextBoxPassword" runat="server"
TextMode="Password"></asp:TextBox>
           <asp:RequiredFieldValidator
ID="RequiredFieldValidatorPassword" runat="server"
             ControlToValidate="TextBoxPassword"
ErrorMessage="Password is required" ForeColor="Red" />
           <asp:Label ID="Label4" runat="server"
Text="Confirm Password:"
AssociatedControlID="TextBoxConfirmPassword"></asp:Label>
           <asp:TextBox ID="TextBoxConfirmPassword"
runat="server" TextMode="Password"></asp:TextBox>
           <asp:RequiredFieldValidator
ID="RequiredFieldValidatorConfirmPassword" runat="server"
             ControlToValidate="TextBoxConfirmPassword"
ErrorMessage="Confirm Password is required" ForeColor="Red" />
             <asp:CompareValidator
ID="CompareValidatorPassword" runat="server"
             ControlToCompare="TextBoxPassword"
ControlToValidate="TextBoxConfirmPassword"
             ErrorMessage="Passwords do not match"
ForeColor="Red" />
           <asp:Label ID="Label5" runat="server" Text="Date of
Birth: Associated Control ID = "TextBoxDOB" > </asp: Label > 
           <asp:TextBox ID="TextBoxDOB"
runat="server"></asp:TextBox>
           <asp:RequiredFieldValidator
ID="RequiredFieldValidatorDOB" runat="server"
             ControlToValidate="TextBoxDOB" ErrorMessage="Date
of Birth is required" ForeColor="Red" />
             <asp:RegularExpressionValidator
ID="RegularExpressionValidatorDOB" runat="server"
```

```
ControlToValidate="TextBoxDOB"
             ErrorMessage="Invalid date format (MM/DD/YYYY)" ForeColor="Red"
                          Validation Expression = "\d{2}/\d{2}/\d{4}" />
                        <asp:Button ID="ButtonSubmit" runat="server"
             Text="Submit" OnClick="ButtonSubmit_Click" />
                        </div>
               </form>
             </body>
             </html>
Default.aspx.cs:
             using System;
             using System.Collections.Generic;
             using System.Ling;
             using System.Web;
             using System.Web.UI;
             using System.Web.UI.WebControls;
             namespace Practical_4_Forms_
               public partial class WebForm1 : System.Web.UI.Page
                 protected void Page_Load(object sender, EventArgs e)
                 {
                 }
                 protected void ButtonSubmit_Click(object sender, EventArgs e)
                   Response.Write("Registration successful!");
               }
             }
```



b) Create Web Form to demonstrate use of Adrotator Control.

### Code:

### AdRotator.aspx

```
</form>
      </body>
      </html>
Ads.xml
      <?xml version="1.0" encoding="utf-8" ?>
      <Advertisements>
             <Ad>
                    <lmageUrl>~/Images/ad1.jpg</lmageUrl>
<NavigateUrl>http://www.example.com/product1</NavigateUrl>
                    <AlternateText>Product 1</AlternateText>
                    <Keyword>Product</Keyword>
                    <Impressions>30</Impressions>
             </Ad>
             <Ad>
                    <lmageUrl>~/Images/ad2.jpg</lmageUrl>
<NavigateUrl>http://www.example.com/product2</NavigateUrl>
                    <AlternateText>Product 2</AlternateText>
                    <Keyword>Product</Keyword>
                    <Impressions>90</Impressions>
             </Ad>
      </Advertisements>
```





# **AdRotator Example**



### Code:

### WebUserControl1.ascx

```
<%@ Control Language="C#" AutoEventWireup="true"
CodeBehind="WebUserControl1.ascx.cs"
Inherits="Practical 4 Forms .WebUserControl1" %>
<asp:Label ID="Label1" runat="server" Text="Enter Your
Name:"></asp:Label>
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
>
  <asp:Label ID="Label2" runat="server" Text="Enter Your
City:"></asp:Label>
  <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="Button" />
>
  <asp:Label ID="Label3" runat="server"></asp:Label>
```

### WebUserControl1.ascx.cs

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

namespace Practical_4_Forms_
{
    public partial class WebUserControl1 : System.Web.UI.UserControl
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
    }
}
```

```
Label3.Text = "Your name is " + TextBox1.Text + " city is " +
                    TextBox2.Text;
                         }
                      }
                    }
             WebForm1.aspx
                    <@@ Page Language="C#" AutoEventWireup="true"
                    CodeBehind="WebForm1.aspx.cs"
                    Inherits="Practical_4_Forms_.WebForm1" %>
                    <@@ Register src="WebUserControl1.ascx"
                    tagname="WebUserControl1" tagprefix="uc1" %>
                    <!DOCTYPE html>
                    <a href="http://www.w3.org/1999/xhtml">
                    <head runat="server">
                       <title></title>
                    </head>
                    <body>
                       <form id="form1" runat="server">
                         <div>
                            <uc1:WebUserControl1 ID="WebUserControl11"
                    runat="server" />
                         </div>
                       </form>
                    </body>
                    </html>
      Output:
                                                         localhost:44319/WebForm1
    localhost:44319/WebForm1
                                                                 % localhost:44319/WebForm1
            % localhost:44319/WebForm1
                                                      Enter Your Name: Vighnesh
Enter Your Name: Vighnesh
                                                      Enter Your City: Mumbai
Enter Your City: Mumbai
                                                      Button
Button
                                                      Your name is Vighnesh city is Mumbai
```

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

}

#### Practical-5

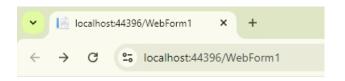
a) Create a Registration form to demonstrate use of various Validation controls.

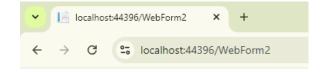
```
Code:
```

```
Web.sitemap:
      <?xml version="1.0" encoding="utf-8" ?>
      <siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
             <siteMapNode url="WebForm2.aspx" title="Laptop" description="">
                    <siteMapNode url="WebForm3.aspx" title="Mobile" />
                    <siteMapNode url="WebForm4.aspx" title="Accessories"/>
             </siteMapNode>
      </siteMap>
  Webform1.aspx:
      <@@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication5.WebForm1" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <title></title>
      </head>
      <body>
        <form id="form1" runat="server">
           <div>
             <asp:SiteMapPath ID="SiteMapPath1" runat="server">
             </asp:SiteMapPath>
             <br />
             <asp:Menu ID="Menu1" runat="server"
DataSourceID="SiteMapDataSource1">
             </asp:Menu>
             <asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server"/>
           </div>
         </form>
      </body>
      </html>
  Webform2.aspx:
      <@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication5.WebForm2"
      %>
      <!DOCTYPE html>
```

```
<a href="http://www.w3.org/1999/xhtml">
   <head runat="server">
      <title></title>
   </head>
   <body>
      <form id="form1" runat="server">
        <div>
          <asp:SiteMapPath ID="SiteMapPath1" runat="server">
          </asp:SiteMapPath>
          <h1>This is Laptop</h1>
        </div>
      </form>
   </body>
   </html>
Webform3.aspx:
   <@@ Page Language="C#" AutoEventWireup="true"
   CodeBehind="WebForm3.aspx.cs" Inherits="WebApplication5.WebForm3"
   %>
   <!DOCTYPE html>
   <a href="http://www.w3.org/1999/xhtml">
   <head runat="server">
      <title></title>
   </head>
   <body>
      <form id="form1" runat="server">
          <asp:SiteMapPath ID="SiteMapPath1" runat="server">
          </asp:SiteMapPath>
           <h1>This is Mobile</h1>
        </div>
      </form>
   </body>
    </html>
Webform4.aspx:
   <@@ Page Language="C#" AutoEventWireup="true"
   CodeBehind="WebForm4.aspx.cs" Inherits="WebApplication5.WebForm4"
   %>
   <!DOCTYPE html>
```

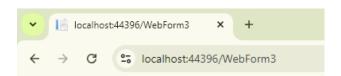
<a href="http://www.w3.org/1999/xhtml">

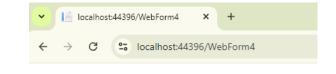




Laptop ▶ Mobile Accessories

This is Laptop





This is Mobile

This is Accessories

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

#### Code:

#### Site.Master:

```
<@@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site.master.cs"
Inherits="WebApplication4.SiteMaster" %>
<!DOCTYPE html>
<html>
<head>
  <title>My Web Application</title>
  k rel="stylesheet" type="text/css" href="styles.css" />
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <header>
        <h1>My Web Application</h1>
        <nav>
           <a href="WebForm1.aspx">Page 1</a>
             <a href="WebForm2.aspx">Page 2</a>
           </nav>
      </header>
      <asp:ContentPlaceHolder ID="MainContent"
runat="server"></asp:ContentPlaceHolder>
    </div>
    <footer>
      © 2024 My Web Application
    </footer>
  </form>
</body>
</html>
```

# WebForm1.aspx:

### WebForm2.aspx:

```
<@@ Page Title="" Language="C#" MasterPageFile="~/Site.Master"
       AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
       Inherits="WebApplication4.WebForm2" %>
       <asp:Content ID="Content1" ContentPlaceHolderID="MainContent"</pre>
       runat="server">
         <h2>Welcome Vighnesh</h2>
         This is the content of the second page.
       </asp:Content>
styles.css
       body {
         font-family: Arial, sans-serif;
         margin: 0;
         padding: 0;
      }
       header {
         background-color: #4CAF50;
         color: white;
         padding: 10px;
         text-align: center;
      }
       nav ul {
         list-style-type: none;
         padding: 0;
      }
```

nav ul li {

}

footer {

}

display: inline; margin: 0 15px;

text-align: center; padding: 10px; position: fixed; bottom: 0; width: 100%;

background-color: #f1f1f1;

### **My Web Application**

Page 1 Page 2

#### ASP.NET

ASP.NET is a free web framework for building great Web sites and Web applications using HTML, CSS, and JavaScript

Learn more »

#### **Getting started**

ASP.NET Web Forms lets you build dynamic websites using a familiar drag-and-drop, event-driven model. A design surface and hundreds of controls and components let you rapidly build sophisticated, powerful Uldriven sites with data access.

Learn more »

#### Get more libraries

NuGet is a free Visual Studio extension that makes it easy to add, remove, and update libraries and tools in Visual Studio projects.

Learn more »

#### Web Hosting

You can easily find a web hosting company that offers the right mix of features and price for your applications.

Learn more »

© 2024 My Web Application

### **My Web Application**

Page 1 Page 2

#### Welcome Vighnesh

This is the content of the first page.

### **My Web Application**

Page 1 Page 2

#### Welcome Vighnesh

This is the content of the second page.

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

### Code:

### WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="Prac_5_c_.WebForm1" %>
<!DOCTYPE html>
```

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

Practical-5[c(i)] Hidden Field<br />

```
<br />
            Client-site state management<br />
            <asp:HiddenField ID="HiddenField1" runat="server" Value="3" />
            <br />
            <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
            <br />
            <br />
            <asp:Label ID="Label2" runat="server" Text="Label"></asp:Label>
            <br />
            <asp:Button ID="Button1" runat="server" onclick="Button1_Click"</pre>
              style="width: 61px" Text="Submit" />
         </div>
         </form>
       </body>
       </html>
WebForm1.aspx,cs:
       using System;
       using System.Collections.Generic;
       using System.Linq;
       using System.Web;
       using System.Web.UI;
       using System.Web.UI.WebControls;
       namespace Prac_5_c_
         public partial class WebForm1 : System.Web.UI.Page
           protected void Page_Load(object sender, EventArgs e)
            {
           }
            protected void Button1_Click(object sender, EventArgs e)
              if (HiddenField1.Value != null)
                 int val = Convert.ToInt32(HiddenField1.Value) + 1;
                 HiddenField1.Value = val.ToString();
                 Label1.Text = val.ToString();
              int val1 = 1;
              Label2.Text = (val1 + 1).ToString();
           }
        }
       }
```

```
WebForm2.aspx:
      <@@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm2.aspx.cs" Inherits="Prac_5_c_.WebForm2" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <title></title>
      </head>
      <body>
         <form id="form1" runat="server">
         <div>
           Practical-5[c(ii)] Query String<br/>
           <asp:Label ID="Label1" runat="server" Text="First Name"></asp:Label>
           <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
           <br />
           <br />
           <asp:Label ID="Label2" runat="server" Text="Last Name"></asp:Label>
           <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
           <br />
           <br />
           <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
              style="height: 26px" Text="Submit" />
         </div>
         </form>
       </body>
       </html>
WebForm2.aspx,cs:
      using System;
      using System.Collections.Generic;
      using System.Ling;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
      namespace Prac_5_c_
      {
         public partial class WebForm2 : System.Web.UI.Page
           protected void Page_Load(object sender, EventArgs e)
           protected void Button1_Click(object sender, EventArgs e)
```

Response.Redirect("WebForm3.aspx?Nm=" + TextBox1.Text + "

&Nm1=" + TextBox2.Text);

} }

```
WebForm3.aspx:
      <@@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm3.aspx.cs" Inherits="Prac_5_c_.WebForm3" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <title></title>
      </head>
      <body>
         <form id="form1" runat="server">
             <asp:Label ID="Label1" runat="server" Font-Bold="True"
      Font-Size="XX-Large"
           ForeColor="Red" Text="Welcome" Width="700px">
           </asp:Label>
         </form>
      </body>
      </html>
WebForm3.aspx,cs:
      using System;
      using System.Collections.Generic;
      using System.Linq;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
      namespace Prac_5_c_
         public partial class WebForm3: System.Web.UI.Page
           protected void Page_Load(object sender, EventArgs e)
             if (Request.QueryString["Nm"] != null)
                Label1.Text = Label1.Text + "....." + Request.QueryString["Nm"]+
" " + Request.QueryString["Nm1"];
             else
                Label1.Text = "Some problem occured";
             }
           }
        }
```

```
WebForm4.aspx:
       <@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm4.aspx.cs" Inherits="Prac 5 c .WebForm4" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
       <style type="text/css">
           #bodytag
             font-family: Calibri;
             }
         </style>
      </head>
      <body id="bodytag" runat="server">
         <form id="form1" runat="server">
         <div>
           <asp:DropDownList ID="DropDownList1" runat="server"
AutoPostBack="True"
             onselectedindexchanged="DropDownList1 SelectedIndexChanged"
             ForeColor="Black" Height="60px"
             Width="120px">
             <asp:ListItem>Red</asp:ListItem>
             <asp:ListItem>Green</asp:ListItem>
             <asp:ListItem>Blue</asp:ListItem>
             <asp:ListItem>Pink</asp:ListItem>
              <asp:ListItem>yellow</asp:ListItem>
           </asp:DropDownList>
         </div>
         </form>
      </body>
       </html>
WebForm4.aspx,cs:
      using System;
      using System.Collections.Generic;
      using System.Ling;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
      namespace Prac 5 c
      {
         public partial class WebForm4 : System.Web.UI.Page
           protected void Page Load(object sender, EventArgs e)
             if (Request.Cookies["BGC"] != null)
                DropDownList1.SelectedValue = Request.Cookies["BGC"].Value;
                bodytag.Style["background-color"] = DropDownList1.SelectedValue;
```

```
DropDownList1.Visible = true;
            }
          }
          protected void DropDownList1_SelectedIndexChanged(object sender,
EventArgs e)
             HttpCookie obj = new HttpCookie("BGC");
             obj.Value = DropDownList1.SelectedValue;
             obj.Expires = DateTime.Now.AddSeconds(4);
             Response.SetCookie(obj);
          }
        }
      }
WebForm5.aspx:
      <@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm5.aspx.cs" Inherits="Prac_5_c_.WebForm5" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <style type="text/css">
           .style3
          {
             font-weight: normal;
          }
        </style>
      </head>
      <body>
        <form id="form1" runat="server">
        <div style="font-family: Calibri">
          <span class="style3">Practical5[c(d)]View State<br />
                 
          <asp:Label1" runat="server" Text="Label"></asp:Label>
          <br />
          <br />
         
          </span>
          <asp:Button ID="Button1" runat="server" onclick="Button1_Click"</pre>
             Text="Get Data" style="height: 26px" />
        </div>
        </form>
      </body>
      </html>
```

```
WebForm5.aspx,cs:
       using System;
       using System.Collections.Generic;
       using System.Ling;
       using System.Web;
       using System.Web.UI;
       using System.Web.UI.WebControls;
       namespace Prac_5_c_
         public partial class WebForm5 : System.Web.UI.Page
         {
           protected void Page_Load(object sender, EventArgs e)
              if (!IsPostBack)
                string str = "Vighnesh Chejara";
                if (ViewState["nam"] == null)
                   ViewState["nam"] = str;
           }
           protected void Button1_Click(object sender, EventArgs e)
              Label1.Text = ViewState["nam"].ToString();
           }
         }
      }
Output:
```

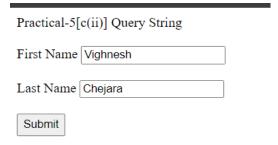
Practical-5[c(i)] Hidden Field

Client-site state management

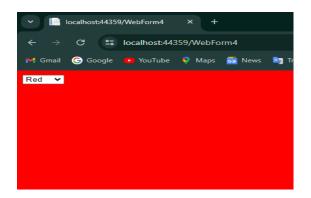
4

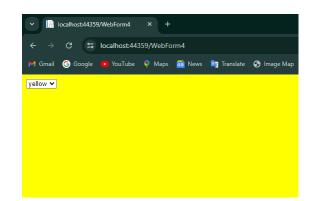
2

Submit



# Welcome.....Vighnesh Chejara





Practical5[c(d)]View State

Label

Vighnesh Chejara

Get Data

Get Data

#### Practical-6

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

#### Code:

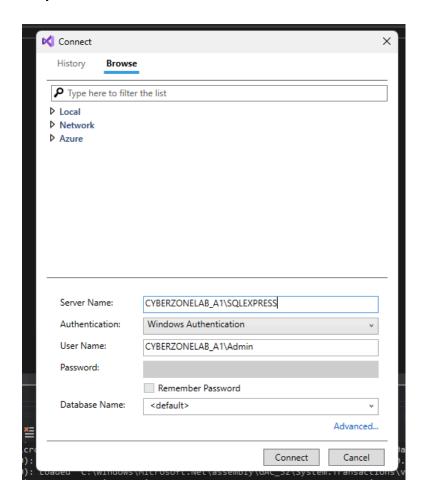
```
WebForm1.aspx:
```

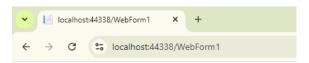
```
<@@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication8.WebForm1"
%>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
   <form id="form1" runat="server">
    <div>
       <h1>Student Details</h1>
       <asp:Label ID="Label1" runat="server" Text="Student"
ID:"></asp:Label>
       <asp:TextBox ID="TextBox1" runat="server"</pre>
OnTextChanged="TextBox1_TextChanged"></asp:TextBox><br/>
       <asp:Label ID="Label2" runat="server" Text="Student
Name:"></asp:Label>
       <asp:TextBox ID="TextBox2" runat="server"</pre>
OnTextChanged="TextBox2_TextChanged"></asp:TextBox><br/>
       <asp:Label ID="Label3" runat="server" Text="Student
Class:"></asp:Label>
       <asp:TextBox ID="TextBox3" runat="server"</pre>
OnTextChanged="TextBox3_TextChanged"></asp:TextBox>
       <br />
       <br />
       <br/>br/>
       <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.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WebApplication8
  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=CYBERZONELAB_A1\SQLEXPRESS;Initial
Catalog=Students;Integrated
Security=True;Encrypt=True;TrustServerCertificate=True;");
      con.Open();
      // Corrected the SQL query and parameters
       SqlCommand cmd = new SqlCommand("insert into student_det
values(@std id,@std name,@std class)", con);
      cmd.Parameters.AddWithValue("@std_id", int.Parse(TextBox1.Text));
       cmd.Parameters.AddWithValue("@std_name", TextBox2.Text);
       cmd.Parameters.AddWithValue("@std_class", TextBox3.Text);
       cmd.ExecuteNonQuery();
      con.Close();
       Response.Write("Data inserted successfully");
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
       SqlConnection con = new SqlConnection(@"Data
Source=CYBERZONELAB_A1\SQLEXPRESS;Initial
Catalog=Students;Integrated
Security=True;Encrypt=True;TrustServerCertificate=True;");
       con.Open();
```

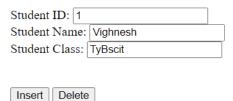
```
// Delete the record where std_id matches
              SqlCommand cmd = new SqlCommand("DELETE FROM student_det
      WHERE std_id = @std_id", con);
             cmd. Parameters. Add With Value ("@std\_id", int. Parse (TextBox 1. Text)); \\
              cmd.ExecuteNonQuery();
              con.Close();
              Response.Write("Record deleted successfully");
           }
           protected void TextBox1_TextChanged(object sender, EventArgs e)
           {
           }
           protected void TextBox2_TextChanged(object sender, EventArgs e)
           {
           }
           protected void TextBox3_TextChanged(object sender, EventArgs e)
           {
           }
      }
SQLQuery1.sql:
      Create Database Students
      Use Students
      create table student_det(std_id INT PRIMARY KEY,std_name
      VARCHAR(100),std_class VARCHAR(50));
      Select * from student_det
```

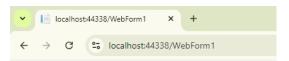




Data inserted successfully

# **Student Details**

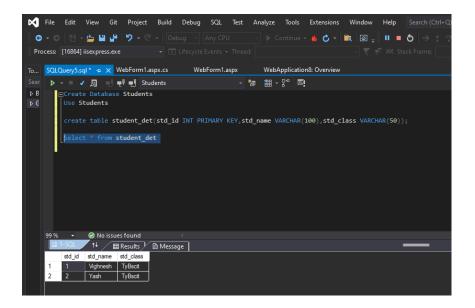




Data inserted successfully

# **Student Details**

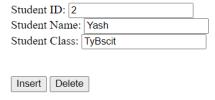
Student ID: 2	
Student Name: Yas	h
Student Class: TyB:	scit
Insert Delete	

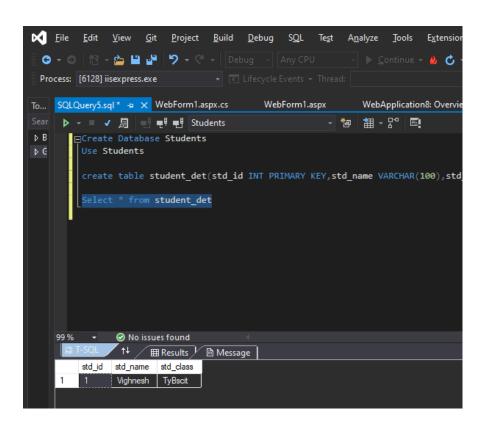




Record deleted successfully

### **Student Details**





b) Create a web application to display Using Disconnected Data Access and Databinding using GridView.

#### Code:

```
WebForm1.aspx:
```

```
<@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm1.aspx.cs" Inherits="Prac 6 b .WebForm1" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <title></title>
      </head>
      <body>
         <form id="form1" runat="server">
         <div>
           <span style="color: rgb(0, 0, 0); font-family: &quot;Times New</pre>
Roman"; font-size: medium; font-style: normal; font-variant-ligatures: normal;
font-variant-caps: normal; font-weight: 400; letter-spacing: normal; orphans: 2;
text-align: start; text-indent: 0px; text-transform: none; widows: 2; word-spacing: 0px;
-webkit-text-stroke-width: 0px; white-space: normal; text-decoration-thickness: initial;
text-decoration-style: initial; text-decoration-color: initial; display: inline !important;
float: none;">
           Vighnesh Chejara   A-09</span><br/>br />
           <br />
           Text="Click to see the data of employee table" />
           <br />
           <br />
           <asp:GridView ID="GridView1" runat="server">
           </asp:GridView>
         </div>
         </form>
      </body>
      </html>
WebForm1.aspx.cs:
      using System;
      using System.Collections.Generic;
      using System.Data;
      using System.Data.SqlClient;
      using System.Ling;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
```

namespace Prac\_6\_b\_

{

```
public partial class WebForm1 : System.Web.UI.Page
            static string str = @"Data
       Source=LAPTOP-B6OIMLRU\SQLEXPRESS10;Initial
       Catalog=employee;Integrated Security=True;Pooling=False";
            SqlConnection con = new SqlConnection(str);
            SqlDataAdapter da;
           protected void Page_Load(object sender, EventArgs e)
           {
           }
           protected void Button1_Click(object sender, EventArgs e)
              con.Open();
              da = new SqlDataAdapter("select * from emp", con);
              DataSet ds = new DataSet();
              da.Fill(ds);
              GridView1.DataSource = ds.Tables[0];
              GridView1.DataBind();
              con.Close();
           }
         }
      }
SQLQuery1.sql:
       Create database employee
       Use employee
       create table emp(emp_id int,emp_name varchar(10),emp_sal int)
       insert into emp values(1,'Max',25000)
       insert into emp values(2,'John',35000)
       insert into emp values(3,'Edward',50000)
       insert into emp values(4,'Henry',15000)
       insert into emp values(5,'Scott',85000)
       select * from emp;
```

Vighnesh Chejara A-09

Click to see the data of employee table

emp_id	emp_name	emp_sal
1	Max	25000
2	John	35000
3	Edward	50000
4	Henry	15000
5	Scott	85000

#### Practical-7

a) Create a web application to demonstrate the use of different types of Cookies **Code:** 

### WebForm1.aspx:

```
<@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm1.aspx.cs" Inherits="Prac_7_a_.WebForm1"
       %>
       <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <title>Cookie Demo in C#</title>
      </head>
       <body>
         <form id="form1" runat="server">
         <div>
           <h2>Cookie Management Demo</h2>
           <asp:Button ID="btnCreateSessionCookie" runat="server"
Text="Create Session Cookie" OnClick="btnCreateSessionCookie Click" />
           <asp:Button ID="btnCreatePersistentCookie" runat="server"
Text="Create Persistent Cookie" OnClick="btnCreatePersistentCookie Click"
/>
           <asp:Button ID="btnReadCookies" runat="server" Text="Read
Cookies" OnClick="btnReadCookies Click" style="height: 29px" />
           <asp:Button ID="btnDeleteCookies" runat="server" Text="Delete
Cookies" OnClick="btnDeleteCookies Click" />
           <br /><br />
           <asp:Label ID="lblMessage" runat="server" Text="" />
         </div>
         </form>
       </body>
       </html>
WebForm1.aspx.cs:
      using System;
      using System.Collections.Generic;
      using System.Ling;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
      namespace Prac 7 a
         public partial class WebForm1 : System.Web.UI.Page
           protected void Page_Load(object sender, EventArgs e)
           }
```

```
protected void btnCreateSessionCookie_Click(object sender,
EventArgs e)
              HttpCookie sessionCookie = new
HttpCookie("SessionCookie", "This is a session cookie");
              Response.Cookies.Add(sessionCookie);
              lblMessage.Text = "Session cookie created successfully.";
           }
            protected void btnCreatePersistentCookie_Click(object sender,
EventArgs e)
              HttpCookie persistentCookie = new
HttpCookie("PersistentCookie", "This is a persistent cookie");
              persistentCookie.Expires = DateTime.Now.AddMinutes(1); //
Cookie will expire in 1 minute
              Response.Cookies.Add(persistentCookie);
              IblMessage.Text = "Persistent cookie created successfully and
will expire in 1 minute.";
            protected void btnReadCookies_Click(object sender, EventArgs
e)
              string message = "";
              if (Request.Cookies["SessionCookie"] != null)
                 message += "Session Cookie Value: " +
Request.Cookies["SessionCookie"].Value + "<br/>";
              else
                 message += "Session Cookie does not exist.<br/>";
              if (Request.Cookies["PersistentCookie"] != null)
                 message += "Persistent Cookie Value: " +
Request.Cookies["PersistentCookie"].Value + "<br/>";
              else
                 message += "Persistent Cookie does not exist.<br/>";
              lblMessage.Text = message;
            }
```

```
protected void btnDeleteCookies_Click(object sender, EventArgs
e)
              if (Request.Cookies["SessionCookie"] != null)
                 HttpCookie sessionCookie = new
HttpCookie("SessionCookie");
                sessionCookie.Expires = DateTime.Now.AddDays(-1); //
Setting the expiry date in the past will delete the cookie
                Response.Cookies.Add(sessionCookie);
              if (Request.Cookies["PersistentCookie"] != null)
                HttpCookie persistentCookie = new
HttpCookie("PersistentCookie");
                 persistentCookie.Expires = DateTime.Now.AddDays(-1); //
Expire the cookie
                 Response.Cookies.Add(persistentCookie);
              IblMessage.Text = "Both session and persistent cookies have
been deleted.";
         }
       }
Web1.config:
       <?xml version="1.0"?>
       <configuration>
              <system.web>
                     <compilation debug="false" targetFramework="4.0" />
              </system.web>
       </configuration>
```

# **Cookie Management Demo**

Create Session Cookie Create Persistent Cookie Read Cookies Delete Cookies

Session cookie created successfully.

### Cookie Management Demo

Create Session Cookie Create Persistent Cookie Read Cookies Delete Cookies

Persistent cookie created successfully and will expire in 1 minute.

# Cookie Management Demo

Create Session Cookie Create Persistent Cookie Read Cookies Delete Cookies

Session Cookie Value: This is a session cookie Persistent Cookie Value: This is a persistent cookie

# Cookie Management Demo

Create Session Cookie | Create Persistent Cookie | Read Cookies | Delete Cookies

Both session and persistent cookies have been deleted.

b) Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties

### Code:

### WebForm1.aspx:

```
Vighnesh    09<br/>br />
           <br />
           user name:
           <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
           <br />
           <br />
           password:
           <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
           <br />
           <br />
           <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
Text="login" />
           <br />
           <asp:CheckBox ID="CheckBox1" runat="server"
OnCheckedChanged="CheckBox1 CheckedChanged" />
           Check here if this is not  a public computer<br/>>br />
           <br />
           <asp:Label ID="Label1" runat="server"
Text="Label"></asp:Label>
           </div>
         </form>
      </body>
       </html>
WebForm1.aspx.cs:
      using System;
      using System.Collections.Generic;
      using System.Linq;
      using System.Web;
      using System.Web.UI;
      using System.Web.UI.WebControls;
      using System.Web.Security;
      namespace Prac_7_b_
      {
         public partial class WebForm1 : System.Web.UI.Page
           protected void Page_Load(object sender, EventArgs e)
           protected bool authenticate(String uname, String pass)
              if (uname == "Vighnesh")
             {
                if (pass == "Chejara")
```

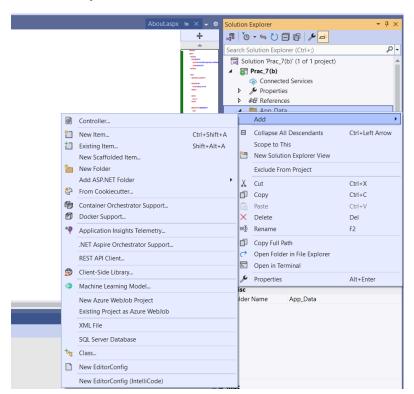
```
return true;
             }
              if (uname == "Yash")
                if (pass == "Shah")
                  return true;
              }
              if (uname == "Aman")
                if (pass == "Singh")
                  return true;
             }
              return false;
           }
           protected void CheckBox1_CheckedChanged(object sender,
EventArgs e)
           }
           protected void Button1_Click(object sender, EventArgs e)
             if (authenticate(TextBox1.Text, TextBox2.Text))
             {
FormsAuthentication.RedirectFromLoginPage(TextBox1.Text,
CheckBox1.Checked);
                Session["Username"] = TextBox1.Text;
                Response.Redirect("WebForm2.aspx");
             }
             else
              {
                Response.Write("Invalid user name or password");
           }
        }
      }
WebForm2.aspx:
       <@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm2.aspx.cs" Inherits="Prac_7_b_.WebForm2" %>
      <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
```

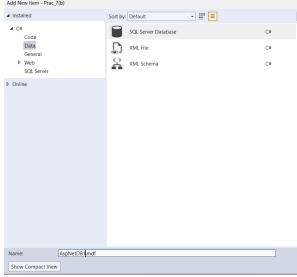
```
<head runat="server">
                <title></title>
             </head>
             <body>
                <form id="form1" runat="server">
                  <div>
                     Welcome....   
                  <asp:Label ID="Label1" runat="server"
      Text="Label"></asp:Label>
                  </div>
                </form>
             </body>
             </html>
      WebForm2.aspx.cs:
             using System;
             using System.Collections.Generic;
             using System.Ling;
             using System.Web;
             using System.Web.UI;
             using System.Web.UI.WebControls;
             namespace Prac_7_b_
             {
                public partial class WebForm2 : System.Web.UI.Page
                  protected void Page_Load(object sender, EventArgs e)
                    if (Session["username"] != null)
                       Label1.Text = Session["username"].ToString();
                  }
             }
      Web1.config:
      <?xml version="1.0"?>
      <configuration>
             <connectionStrings>
                    <add name="ApplicationServices"
                            connectionString="data source=.\SQLEXPRESS;
Integrated Security=SSPI; AttachDbFilename=|DataDirectory|\AspNetDB1.mdf"
                            providerName="System.Data.SqlClient"/>
             </connectionStrings>
```

```
<system.web>
                    <compilation debug="true" targetFramework="4.0"/>
                    <authentication mode="Forms">
                           <forms loginUrl="WebForm1.aspx" timeout="2880"/>
                     </authentication>
                    <authorization>
                           <deny users="?"/>
                    </authorization>
                    <membership
defaultProvider="AspNetSqlMembershipProvider">
                           cproviders>
                                  <clear/>
                                  <add name="AspNetSqlMembershipProvider"
type="System.Web.Security.SqlMembershipProvider"
connectionStringName="ApplicationServices"
                                          applicationName="/"
              />
                           </providers>
                    </membership>
                    file defaultProvider="AspNetSqlProfileProvider">
                           oviders>
                                  <clear/>
                                  <add name="AspNetSqlProfileProvider"
type="System.Web.Profile.SqlProfileProvider"
connectionStringName="ApplicationServices"
                                          applicationName="/"
              />
                           </providers>
                    </profile>
                    <roleManager enabled="false">
                           cproviders>
                                  <clear/>
                                  <add name="AspNetSqlRoleProvider"
type="System.Web.Security.SqlRoleProvider"
connectionStringName="ApplicationServices"
                                          applicationName="/"
              />
```

### 

### **Output:**





### **Practical-8**

a) Create a web application for inserting and deleting records from a database. (Using Execute-Non Query).

Code:

Default.aspx:

Output:

Vighnosh A 00	WebForm1.aspx	C.cs WebForm1.aspx  Book	SQLQuery3.sql → × Prac_8(a): Overview  The results of the results
Vighnesh A-09	1	Create Database Boo	
Enter author name: Robert Kiyosaki	2 3 4	Use Book Create table book(a select * from book;	author varchar(50),ph_no varchar(11)
Enter phone number: 98745612			
Insert Delete Reset			
Detailed and Ciller			
Data added successfully		No issues found	(
	S T-SQL author	↑↓ ■ Results ■ Message	
	1 Robert Kiyo 2 Heyman Go		
	3 Filler Mathe	w 9874578	
	-		
Vighnesh A-09	WebForm1.aspx.  □ ✓ □	.cs WebForm1.aspx  ■ ■ ■ ■ Book	SQLQuery3.sql → × Prac_8(a): Overview  The result of the results
Vigiliesii A-09	1	Create Database Book	
Enter author name: Filler Mathew	2 3 4	Use Book Create table book(aut select * from book;	thor varchar(50),ph_no varchar(11))
Enter phone number:			
Insert Delete Reset			
5 - 11 - 1 - 6 11			
Data deleted successfully		No issues found	
	author	ph_no aki 98745612	
		ch 98745678	
	•		
Vighnesh A-09			
Enter author name:			
Enter phone number:			
Insert   Delete   Rese	et		

b) Create a web application for user defined exception handling.

using System.Web.UI;

using System.Web.UI.WebControls;

#### Code:

```
WebForm1.aspx:
       <@@ Page Language="C#" AutoEventWireup="true"
      CodeBehind="WebForm1.aspx.cs" Inherits="Prac 8 b .WebForm1"
      %>
       <!DOCTYPE html>
      <a href="http://www.w3.org/1999/xhtml">
      <head runat="server">
         <title></title>
      </head>
      <body>
         <form id="form1" runat="server">
           <div>
           <!--8b. Create a web application for user defined exception
handling .-->
           Vighnesh Chejara    A-09<br/>br />
           <br />
           User defined exception handling<br/><br/>>
           <asp:Button ID="Button1" runat="server" onclick="Button1_Click"
Text="Click" />
           <br />
           <br />
           <asp:Label ID="Label1" runat="server"
Text="Label"></asp:Label>
           <br />
           <br />
           <asp:Label ID="Label2" runat="server"
Text="Label"></asp:Label>
         </div>
         </form>
       </body>
       </html>
WebForm1.aspx.cs:
      using System;
      using System.Collections.Generic;
      using System.Ling;
      using System.Web;
```

```
namespace Prac_8_b_
         public class CustomException : Exception
            public CustomException(string message) : base(message)
            }
         }
         public partial class WebForm1 : System.Web.UI.Page
            protected void Page_Load(object sender, EventArgs e)
            {
            }
            protected void Button1_Click(object sender, EventArgs e)
              try
                 int a, b, c;
                 a = 10;
                 b = 0;
                 if (b == 0)
                   throw new CustomException("Custom Error: Division by
zero is not allowed!");
                 c = a / b;
                 Label1.Text = c.ToString();
              catch (CustomException ex)
                 Label1.Text = ex.Message;
              catch (System.Exception ex)
                 Label1.Text = "System Exception: " + ex.Message;
              }
              finally
                 Label2.Text = "Thank You!";
              }
         }
```

Vighnesh Chejara A-09

User defined exception handling

Click

Custom Error: Division by zero is not allowed!

Thank You!