**1.Write a console application that obtains two int values from the user and displays the a. ADD b. SUBTRACT c. MULTIPLY d. DIVISION e. MOD Menu program.**

**With Function** using

System; using System.Collections.Generic;

using System.Linq; using System.Text; using

System.Threading.Tasks;

namespace FirstConsoleApp

{

class Program

{

class Calculate

{

public static int Addition(int a, int b)

{ int c = a + b;

return c;

}

public static int Subtraction(int a, int b)

{ int c = a - b;

return c;

}

public static int Multiplication(int a, int b)

{ int c = a \* b;

return c;

}

public static int Division(int a, int b)

{ int c = a / b;

return c;

}

public static int Modulo(int a, int b)

{ int c = a % b;

return c;

}

}

static void Main(String[] args)

{

int ch, r,c,d;

String a, b;

Console.WriteLine("\nEnter First Value : "); a = Console.ReadLine(); c =

Convert.ToInt32(a);

Console.WriteLine("\nEnter Second Value : "); b = Console.ReadLine(); d = Convert.ToInt32(b);

do

{

Console.WriteLine("\n1-Addition\n2-Subtraction\n3Multiplication\n4Division\n5-Modulo\n6-Exit.");

Console.WriteLine("\nEnter Your Choise : ");

String choise = Console.ReadLine(); ch =

Convert.ToInt32(choise);

switch (ch)

{ case 1:

Console.WriteLine("Addition = " + Calculate.Addition(c,d)); break; case 2:

Console.WriteLine("Subtraction = " + Calculate.Subtraction(c, d)); break; case 3:

Console.WriteLine("Multiplication = " + Calculate.Multiplication(c, d)); break; case 4:

Console.WriteLine("Division = " + Calculate.Division(c, d)); break; case 5:

Console.WriteLine("Modulo = " + Calculate.Modulo(c, d)); break; case 6: ch = 0;

break; default:

Console.WriteLine("Invalid Choise."); break;

}

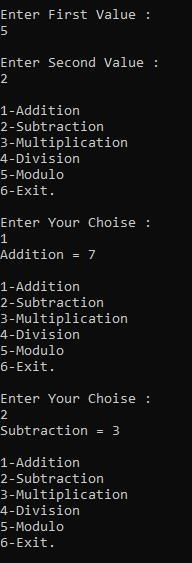
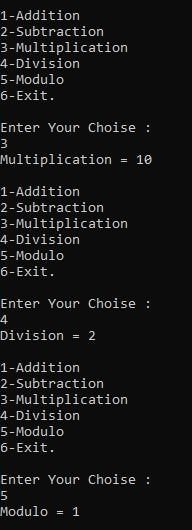
} while (ch != 0);

}

}

}

**Output :**

**Without Function**

using System; using System.Collections.Generic; using System.Linq; using System.Text;

using System.Threading.Tasks;

namespace ConsoleAppDemo

{

class Program

{

static void Main(string[] args)

{

int a, b, opt; do {

Console.Write("\nHere are the options :\n");

Console.Write("1-Addition.\n2-Substraction.\n3-Multiplication.\n4-

Division.\n5-Exit.\n");

Console.Write("\nInput your choice :"); opt = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter the number :"); a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter the number :"); b = Convert.ToInt32(Console.ReadLine());

switch (opt)

{ case 1:

Console.WriteLine("\n{0} + {1} = {2}", a, b, a+b); break; case 2:

Console.WriteLine("\n{0} - {1} = {2}", a, b, a - b); break; case 3:

Console.WriteLine("\n{0} \* {1} = {2}", a, b, a \* b); break; case 4:

Console.WriteLine("\n{0} / {1} = {2}", a, b, a / b); break; case 5: break; default:

Console.Write("Input correct option\n"); break;

}

} while (b <= 5)

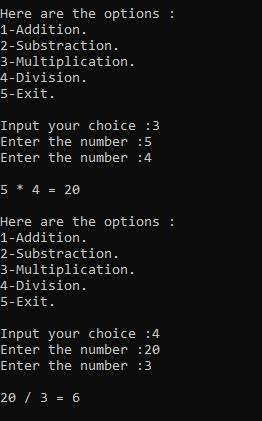
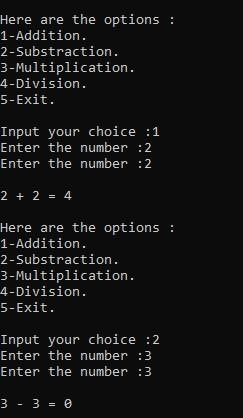
Console.ReadKey();

}

}

}

**Output :**



**2. Write programs using conditional statements and loops:**

**I) Generate Fibonacci series. II) Generate various patterns**  **(triangles, diamond and other patterns) with numbers. III) Test for prime numbers.**

using System; using System.Collections.Generic;

using System.Linq; using System.Text; using System.Threading.Tasks;

namespace program2

{

class Program

{

static void Main(string[] args)

{

int num1 = 0, num2 = 1, num3, i, x, y, z , number, opt, j, r = 8, startNumber =

1; do {

Console.Write("\nHere are the options :\n");

Console.Write("1-Fibonacci series.\n2-Triangles.\n3-Diamond.\n4-prime numbers.\n5-Exit.\n");

Console.Write("\nInput your choice :"); opt = Convert.ToInt32(Console.ReadLine());

switch (opt) { case 1:

Console.Write("Enter the number element "); number = int.Parse(Console.ReadLine());

Console.Write(num1 + "" + num2 + "");

for (i = 2; i < number; ++i)

{ num3 = num1 + num2;

Console.Write(num3 + ""); num1 = num2; num2 = num3;

} break; case 2:

for (x = 1; x <= r; x++)

{

for (y = x; y < r; y++)

{

Console.Write(" ");

}

for (z = 1; z < (x \* 2); z++)

{

Console.Write("\*");

}

Console.WriteLine();

} break;

case 3:

Console.WriteLine("Diamond"); for (i = 0; i <= r; i++)

{ for (j = 1; j <= r - i; j++)

Console.Write(" "); for (j =

1; j <= 2 \* i - 1; j++)

Console.Write("1");

Console.Write("\n");

}

for (i = r - 1; i >= 1; i--) { for (j

= 1; j <= r - i; j++)

Console.Write(" "); for

(j = 1; j <= 2 \* i - 1; j++)

Console.Write("1");

Console.Write("\n");

} break;

case 4:

;

// Console.Write("Enter The Start Number: ");

// int startNumber = int.Parse(Console.ReadLine());

Console.Write("Enter the End Number : ");

int endNumber = Convert.ToInt32(Console.ReadLine());

Console.WriteLine($"The Prime Numbers between {startNumber} and {endNumber} are : ");

for (i = startNumber; i <= endNumber; i++)

{ int counter = 0;

for (j = 2; j <= i / 2; j++)

{

if (i % j == 0)

{ counter++; break;

}

}

if (counter == 0 && i != 1)

{

Console.Write("{0} ", i);

}

}

break;

case 5:

Console.Write("Your Exit the menu\n"); break;

default:

Console.Write("Invalid choice\n"); break;

}

}

while (opt <= 5);

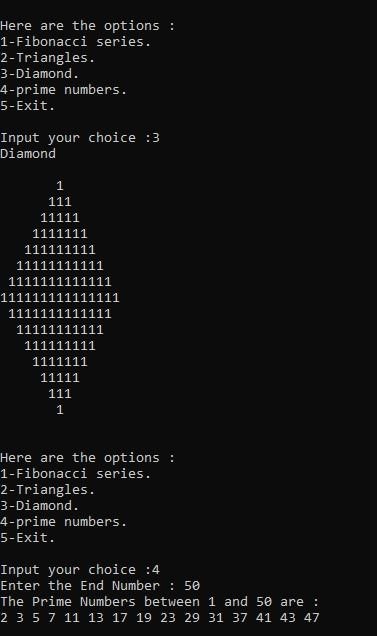
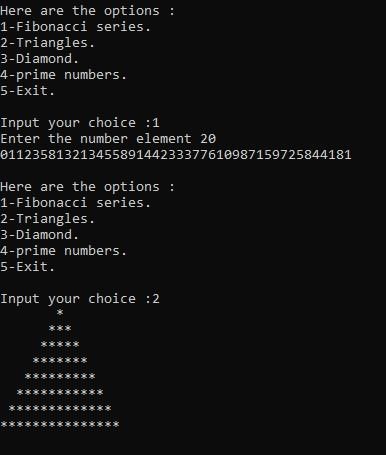
Console.ReadLine();

}

}

}

**Output :**



**3. Write a console application to add two matrices.**

using System; using System.Collections.Generic;

using System.Linq; using System.Text; using

System.Threading.Tasks;

namespace SecondConsoleApp

{

class matrix

{

static void Main(string[] args)

{ int r = 3; int c = 3; int[,] a= new int[r,c]; int[,] b= new int[r,c]; int[,] d = new int[r,c]; string

x,y; int n,m;

Console.WriteLine("Enter Matrix A Value : ");

for(int i=0;i<r;i++)

{

for(int j=0;j<c;j++)

{

1. = Console.ReadLine(); n = Convert.ToInt32(x); a[i,j] = n;

}

}

Console.WriteLine("Enter Matrix B Value : "); for (int i = 0; i < r; i++)

{

for (int j = 0; j < c; j++)

{

1. = Console.ReadLine();

m = Convert.ToInt32(y);

b[i,j] = m;

}

}

Console.WriteLine("Addition");

for (int i = 0; i < r; i++)

{

for (int j = 0; j < c; j++) { d[i,j] = a[i,j] + b[i,j];

Console.Write(d[i,j]+"\t");

}

Console.WriteLine();

}

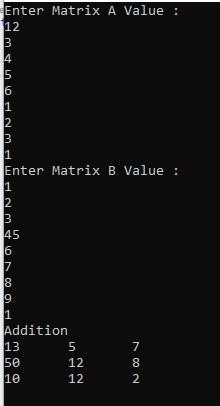
Console.ReadKey();

}

}

}

**Output :**



**4 .Write code to get a calculator to validate and add numbers.**

using System; using System.Collections.Generic;

using System.Linq; using System.Text; using System.Threading.Tasks;

namespace SecondConsoleApp

{

class InVaildInput : Exception

{

public override string Message

{ get

{

return "Custom Exception : Only Allow Number Format Input.";

}

}

}

class Validation

{

static void Main(string[] args)

{

int ch, r, c, d;

String a, b;

int numericValueA;

int numericValueB;

Console.WriteLine("\nEnter First Value : "); a = Console.ReadLine();

bool isNumberA = int.TryParse(a, out numericValueA);

Console.WriteLine("\nEnter Second Value : "); b = Console.ReadLine();

bool isNumberB = int.TryParse(b, out numericValueB);

try

{

if ((isNumberA == true) && (isNumberB == true))

{

c = numericValueA; d = numericValueB;

do {

Console.WriteLine("\n1-Addition\n2-Subtraction\n3Multiplication\n4Division\n5-Modulo\n6-Exit.");

Console.WriteLine("\nEnter Your Choice : ");

String choice = Console.ReadLine(); ch = Convert.ToInt32(choice);

switch (ch)

{ case 1:

r = c + d;

Console.WriteLine("Addition = " + r); break; case 2:

r = c - d;

Console.WriteLine("Subtraction = " + r); break; case 3:

r = c \* d;

Console.WriteLine("Multiplication = " + r); break; case 4:

r = c / d;

Console.WriteLine("Division = " + r); break; case 5: r = c % d; Console.WriteLine("Modulo

= " + r); break; case 6: ch = 0; break; default:

Console.WriteLine("Invalid Choise."); break;

}

} while (ch != 0);

} else

{

throw new InVaildInput();

//Console.WriteLine("Not Valid.");

}

}

catch(Exception e)

{

Console.WriteLine(e);

}

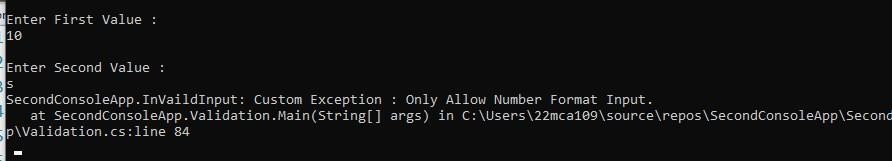
Console.ReadKey();

Console.ReadKey();

}

} }

**Output :**



**5 .Write a program to declare class “Distance” have data members dist1, dist2, dist3. Initialize the two data members using constructor and store their addition in the third data member using function and display addition.**

using System; using System.Collections.Generic;

using System.Linq; using System.Text; using System.Threading.Tasks;

namespace SecondConsoleApp

{

class DistanceProg

{

static void Main(string[] args)

{

Distance d = new Distance(10,20); d.display();

Console.ReadKey();

}

}

class Distance

{

int dist1, dist2, dist3;

public Distance(int dist1, int dist2)

{ this.dist1 = dist1;

this.dist2 = dist2;

}

public void display()

{

dist3 = dist1 + dist2;

Console.WriteLine("Addition of dist1 & dist2 : " + dist3);

}

}

}

**Output :**



**6. Define a class “salary” which will contain member variables Basic, TA, DA, HRA. Write a program using Constructor with default values for DA and HRA and calculate the salary of the employee.**

using System;

using System.Collections.Generic; using System.Linq; using System.Text;

using System.Threading.Tasks;

namespace SecondConsoleApp

{

class SalaryProg

{

class Salary

{

int Basic = 20000, TA = 5000;

int DA, HRA;

public Salary()

{

DA = 10000;

HRA = 5000;

}

public int CalculateSalary()

{

return Basic + TA + DA + HRA;

}

}

public static void Main(string[] args)

{

Salary s = new Salary();

Console.WriteLine("Salary : "+s.CalculateSalary());

Console.ReadKey();

}

}

}

**Output :**



**7. Demonstrate Event Handling .**

using System; using System.Collections; using

System.Collections.Generic; using System.ComponentModel; using System.Data; using System.Drawing; using

System.Linq; using

System.Text; using System.Threading.Tasks; using System.Windows.Forms; namespace WindowsForms

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void textBox2\_TextChanged(object sender, EventArgs e)

{

label2.Text = txtname.Text;

}

private void btnSubmit\_Click(object sender, EventArgs e)

{ string radio; string check;

if(gender1.Checked)

{

radio = "Male Select";

}

else if(gender2.Checked)

{

radio = "Female Select";

} else

{

radio = "No One Select";

}

if(checkBox1.Checked)

{

check = "Java";

}

else if (checkBox2.Checked)

{

check = ".Net";

} else

{

check = "No One Select";

}

MessageBox.Show("RadioBox value : "+radio+" CheckBox Value : "+check);

}

RadioButton rb = new RadioButton();

private void addBtn\_Click(object sender, EventArgs e)

{

AddNewBtn();

}

private void AddNewBtn()

{

rb.Text = "New Btn";

rb.Name = "newRadio";

GrpBox.Controls.Add(rb);

}

private void removeBtn\_Click(object sender, EventArgs e)

{

GrpBox.Controls.Remove(rb);

}

private void btn2\_Click(object sender, EventArgs e)

{

txt2.Text = "Mouse Click Event Call";

} private void btn2\_MouseDown(object sender, MouseEventArgs e)

{

txt2.Text = "Mouse Down Event Call";

}

private void btn2\_MouseEnter(object sender, EventArgs e)

{

txt2.Text = "Mouse Enter Event Call";

}

private void btn2\_MouseHover(object sender, EventArgs e)

{

txt2.Text = "Mouse Hover Event Call";

}

private void btn2\_MouseLeave(object sender, EventArgs e)

{

txt2.Text = "Mouse Leave Event Call";

}

private void btn2\_MouseMove(object sender, MouseEventArgs e)

{

txt2.Text = "Mouse Move Event Call";

}

private void btn2\_MouseUp(object sender, MouseEventArgs e)

{

txt2.Text = "Mouse Up Event Call";

}

private void txt2\_KeyDown(object sender, KeyEventArgs e)

{

label3.Text = "KeyDown Call";

label3.Text = $"{e.Modifiers}"; //Display Alt,Ctrl,Shift

}

private void txt2\_KeyPress(object sender, KeyPressEventArgs e) {

label3.Text = "KeyPress Call"; label3.Text = $"{e.KeyChar}"; //Display Key Name

}

private void txt2\_KeyUp(object sender, KeyEventArgs e)

{

label3.Text = $"{e.KeyCode}"; // Display Key name

label3.Text = $"{e.KeyData}"; // Display Alphabate label3.Text

= $"{e.KeyValue}"; // Display ASSIC Value

}

private void btnList\_Click(object sender, EventArgs e)

{

ArrayList a = new ArrayList(); a.Add("Kiwi");

a.Add("Water Malon");

a.Add("Graps");

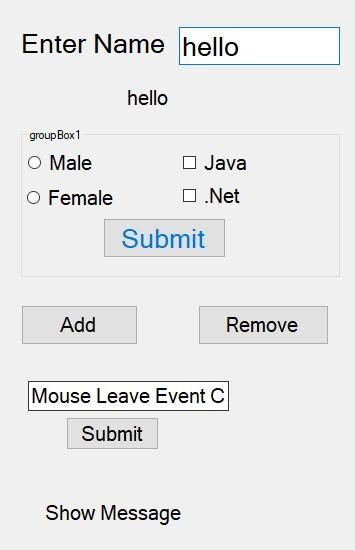
listBox1.DataSource = a;

}

}

}

**Output :**



**8. Demonstrate Delegates**

**Single Delegates** using System; using System.Collections.Generic; using System.Linq; using System.Text; using

System.Threading.Tasks;

namespace SecondConsoleApp

{

class Delegates

{

public delegate int delmethod(int a,int b);

public delegate void delmethod2();

public class A

{

public static void print()

{

Console.WriteLine("Print Method Called.");

}

public static int display(int a,int b)

{

//Console.WriteLine("A = "+a+"\nB = "+b);

return a + b;

}

public void show()

{

Console.WriteLine("Show Method Called.");

}

}

static void Main(string[] args)

{

// Without Parameter delmethod2 d = A.print;

d();

// With Parameter delmethod d1 = A.display; int c = d1(10,15);

Console.WriteLine("Sum is = "+c);

// Creating Object of Class A A a = new A();

d = a.show; d();

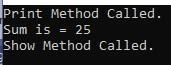
Console.ReadLine();

}

}

}

**Output :**



**Multi Delegates**

using System; using

System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks;

namespace SecondConsoleApp

{

class MultiDelegates

{

public delegate void MDelegate();

public class DM

{

public static void display()

{

Console.WriteLine("Display method Call.");

}

public static void print()

{

Console.WriteLine("Print method Call.");

}

}

static void Main(string[] args)

**12 - Demonstrate the use of ADO.NET Object model.**

**Master Page**

<%@ Master Language="C#" AutoEventWireup="true"

CodeBehind="SampleMasterPage.master.cs"

Inherits="WebApplication.SampleMasterPage" %>

<!DOCTYPE html>

<html>

<head runat="server">

<title></title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-

alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-

GLhlTQ8iRABdZLl6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA6j6gD" crossorigin="anonymous" />

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-

w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF7CXvN" crossorigin="anonymous"></script>

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

</asp:ContentPlaceHolder>

<style type="text/css"> .auto-style1 { height:

125px; text-align: center; font-size: xxlarge;

}

.auto-style2 { height: 99px; font-size: xx-large;

text-align: center;

}

.auto-style3 {

height: 425px;

}

.auto-style4 { height: 425px; width: 203px; font-size: xxlarge; text-align:

center;

}

</style>

</head>

<body style="height: 193px">

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

<table border="1" style="width:100%;">

<tr>

<td class="auto-style1" colspan="2"><strong>My Website<br />

</strong>

<asp:Menu ID="Menu1" runat="server" Orientation="Horizontal">

<Items>

<asp:MenuItem NavigateUrl="~/Home.aspx" Text="Home"

Value="Home"></asp:MenuItem>

<asp:MenuItem NavigateUrl="~/AboutUs.aspx" Text="AboutUs"

Value="AboutUs"></asp:MenuItem>

</Items>

</asp:Menu>

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

</td>

</tr>

<tr>

<td class="auto-style4"><strong>Menu</strong></td>

<td class="auto-style3">

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

</td>

</tr> <tr>

<td class="auto-style2" colspan="2"><strong>Footer</strong></td>

</tr>

</table>

</form>

</body>

</html>

**Master.cs** using System; using System.Collections.Generic; using

System.Linq; using System.Web; using

System.Web.UI; using

System.Web.UI.WebControls; namespace WebApplication

{

public partial class SampleMasterPage : System.Web.UI.MasterPage

{

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

{ }

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

{

Session["email"] = null;

Session["password"] = null;

Session.Abandon();

Response.Redirect("Login.aspx");

}

}

}

**Login Page :**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs"

Inherits="WebApplication.Login" %>

<!DOCTYPE html>

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

<head runat="server">

<title>Login Page</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-

alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-

GLhlTQ8iRABdZLl6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA6j6gD" crossorigin="anonymous" />

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-

w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF7CXvN" crossorigin="anonymous"></script>

</head>

<body>

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

<div class="container">

<div class="row mt-5 justify-content-center">

<div class="col-md-6">

<div class="card">

<div class="card-header">

<h3>Login Page </h3>

</div>

<div class="card-body">

<div class="form-group m-2">

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

<asp:TextBox ID="txtEmail" CssClass="form-control"

TextMode="Email" placeholder="Enter Email" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ControlToValidate="txtEmail" ForeColor="Red" Display="Dynamic"

ErrorMessage="Please Enter Email Address"></asp:RequiredFieldValidator>

<asp:RegularExpressionValidator ID="RegularExpressionValidator1"

ControlToValidate="txtEmail" ForeColor="Red" Display="Dynamic"

ValidationExpression="^([\w\.\-]+)@([\w\-]+)((\.(\w){2,3})+)$" runat="server"

ErrorMessage="Please Enter Valid Format."></asp:RegularExpressionValidator>

</div>

<div class="form-group m-2">

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

<asp:TextBox ID="txtPwd" CssClass="form-control"

TextMode="Password" placeholder="Password" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server" ControlToValidate="txtPwd" ForeColor="Red" Display="Dynamic"

ErrorMessage="Please Enter Password"></asp:RequiredFieldValidator>

</div>

</div>

<div class="card-footer" align="center">

<div>

<asp:Button ID="Button1" CssClass="btn btn-outline-success"

OnClick="LoginBtn\_Click" runat="server" Text="Login" />

</div>

</div>

</div>

</div>

</div>

</div>

</form>

</body>

</html>

**Login.aspx.cs** using

System;

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

namespace WebApplication

{

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

{

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

{

}

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

{

string email = txtEmail.Text; string

pwd = txtPwd.Text;

OleDbConnection con = new

OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data

Source=C:/Users/22mca109/source/repos/WebApplication/WevAppDB.accdb"); con.Open();

OleDbCommand cmd = new OleDbCommand("SELECT \* FROM [User] WHERE

Email='"+ email +"' AND Password='"+ pwd +"'", con); OleDbDataReader rd = cmd.ExecuteReader(); if (rd.Read())

{

Session["email"] = email;

Session["password"] = pwd;

Response.Redirect("Home.aspx" , true);

}

//Response.Redirect("Home.aspx"); con.Close();

}

}

}

**Register Page**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Registraction.aspx.cs"

Inherits="WebApplication.Registraction" %>

<!DOCTYPE html>

<script runat="server">

private void InsertUser(object source, EventArgs e)

{

SqlDataSource1.Insert();

}

</script>

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

<head runat="server">

<title>Registraction Form</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-

alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-

GLhlTQ8iRABdZLl6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA6j6gD" crossorigin="anonymous" />

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-

w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF7CXvN" crossorigin="anonymous"></script>

</head>

<body>

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

<div class="container">

<div class="row mt-5">

<div class="col-md-6">

<table class="table" border="1" align="center" cellpadding="10px" cellspacing="5px">

<thead>

<tr>

<th colspan="2">

<h1 class="text-center">Registration Form</h1>

</th>

</tr>

</thead>

<tbody>

<tr>

<th>

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

</th>

<td>

<asp:TextBox ID="txtID" TextMode="SingleLine" CssClass="formcontrol" runat="server" placeholder="Enter ID"></asp:TextBox>

</td>

</tr>

<tr>

<th>

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

</th>

<td>

<asp:TextBox ID="txtName" TextMode="SingleLine"

CssClass="form-control" runat="server" placeholder="Enter Name"></asp:TextBox>

</td>

</tr>

<tr>

<th>

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

</th>

<td>

<asp:TextBox ID="txtEmail" TextMode="Email" CssClass="formcontrol" runat="server" placeholder="xyz@gmail.com"></asp:TextBox>

</td>

</tr>

<tr>

<th>

<asp:Label ID="lbPhone" runat="server" Text="Mobile

No"></asp:Label>

</th>

<td>

<asp:TextBox ID="txtPhone" TextMode="SingleLine"

CssClass="form-control" runat="server" placeholder="Enter Mobile NO"></asp:TextBox>

</td>

</tr>

<tr>

<th>

<asp:Label ID="lbPwd" runat="server"

Text="Password"></asp:Label>

</th>

<td>

<asp:TextBox ID="txtPwd" TextMode="Password" CssClass="formcontrol" runat="server" placeholder="\*\*\*\*\*\*\*\*\*\*"></asp:TextBox>

</td>

</tr>

<tr>

<th>

<asp:Label ID="lbGender" runat="server"

Text="Gender"></asp:Label>

</th>

<td>

<div class="form-control">

<asp:RadioButtonList ID="txtGender" runat="server">

<asp:ListItem>Male</asp:ListItem>

<asp:ListItem>Female</asp:ListItem>

</asp:RadioButtonList>

</div>

</td>

</tr>

<tr>

<th>

<asp:Label ID="lbHobby" runat="server"

Text="Hobby"></asp:Label>

</th>

<td>

<div class="form-control">

<asp:CheckBoxList ID="txtHobby" runat="server">

<asp:ListItem>Games</asp:ListItem>

<asp:ListItem>Reading</asp:ListItem>

<asp:ListItem>Travelling</asp:ListItem>

<asp:ListItem>Games</asp:ListItem>

</asp:CheckBoxList>

</div>

</td>

</tr>

</tbody>

<tfoot>

<tr>

<td>

<asp:Button ID="btnStoreDatabase" CssClass="btn btn-outlineprimary text-center" OnClick="InsertUser" runat="server" Text="Store In Database" />

<asp:Button ID="btnSubmit" CssClass="btn btn-outline-success text-center" OnClick="btnSubmit\_Click" runat="server" Text="Submit" />

</td>

</tr>

</tfoot>

</table>

</div>

</div>

<div class="row mt-5">

<div class="col-md-12">

<div class="card">

<div class="card-header">

<h1>Registration Form Data</h1>

</div>

<div class="card-body">

<asp:GridView ID="gridLoad" runat="server" Width="100%" AutoGenerateColumns="false" CellPadding="4" ForeColor="#333333" GridLines="None">

<AlternatingRowStyle BackColor="White" />

<Columns>

<asp:BoundField HeaderText="Name" DataField="Name" />

<asp:BoundField HeaderText="Email" DataField="Email" />

<asp:BoundField HeaderText="Phone" DataField="Phone" />

<asp:BoundField HeaderText="Password" DataField="Password" /> </Columns>

<EditRowStyle BackColor="#2461BF" />

<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" /> <PagerStyle BackColor="#2461BF" ForeColor="White"

HorizontalAlign="Center" />

<RowStyle BackColor="#EFF3FB" />

<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F5F7FB" />

<SortedAscendingHeaderStyle BackColor="#6D95E1" />

<SortedDescendingCellStyle BackColor="#E9EBEF" />

<SortedDescendingHeaderStyle BackColor="#4870BE" /> </asp:GridView>

</div>

</div>

</div>

</div>

<div class="row mt-5">

<div class="col-md-12">

<div class="card">

<div class="card-header">

<h1>DataBase Data</h1>

</div>

<div class="card-body">

<asp:GridView ID="GridView1" runat="server" Width="100%"

AutoGenerateEditButton="True" AutoGenerateDeleteButton="True"

AutoGenerateColumns="False" DataKeyNames="ID" DataSourceID="SqlDataSource1"

CellPadding="4" ForeColor="#333333" GridLines="None">

<AlternatingRowStyle BackColor="White" />

<Columns>

<asp:BoundField DataField="ID" HeaderText="ID"

InsertVisible="False" ReadOnly="True" SortExpression="ID" />

<asp:BoundField DataField="Name" HeaderText="Name" SortExpression="Name" />

<asp:BoundField DataField="Email" HeaderText="Email" SortExpression="Email" /> <asp:BoundField DataField="Phone" HeaderText="Phone"

SortExpression="Phone" />

<asp:BoundField DataField="Password" HeaderText="Password" SortExpression="Password" />

</Columns>

<EditRowStyle BackColor="#2461BF" />

<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" /> <PagerStyle BackColor="#2461BF" ForeColor="White"

HorizontalAlign="Center" />

<RowStyle BackColor="#EFF3FB" />

<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True"

ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F5F7FB" />

<SortedAscendingHeaderStyle BackColor="#6D95E1" />

<SortedDescendingCellStyle BackColor="#E9EBEF" />

<SortedDescendingHeaderStyle BackColor="#4870BE" /> </asp:GridView>

<asp:SqlDataSource ID="SqlDataSource1" runat="server"

ConnectionString="<%$ ConnectionStrings:ConnectionString %>"

ProviderName="<%$

ConnectionStrings:ConnectionString.ProviderName %>"

InsertCommand="INSERT INTO

[User](ID,Name,Email,Phone,Password)

VALUES(@ID,@Name,@Email,@Phone,@Password)"

DeleteCommand="DELETE \* FROM [User] WHERE [ID]=@ID"

UpdateCommand="UPDATE [User] SET

[Name]=@Name,[Email]=@Email,[Phone]=@Phone,[Password]=@Password,[Gender]=@

Gender,[Hobby]=@Hobby WHERE [ID]=@ID"

SelectCommand="SELECT \* FROM [User]">

<InsertParameters>

<asp:FormParameter name="ID" FormField="txtID" />

<asp:FormParameter name="Name" FormField="txtName" />

<asp:FormParameter name="Email" FormField="txtEmail" />

<asp:FormParameter name="Phone" FormField="txtPhone" />

<asp:FormParameter name="Password" FormField="txtPwd" /> </InsertParameters>

</asp:SqlDataSource>

</div>

</div>

</div>

</div>

</div>

</form>

</body>

</html>

**Register.aspx.cs** using System; using

System.Collections; using

System.Collections.Generic; using

System.Data; using System.Linq; using System.Web; using System.Web.UI; using System.Web.UI.WebControls; namespace WebApplication

{

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

{

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

{

}

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

{

DataTable l = new DataTable();

l.Columns.Add("Name",typeof(String));

l.Columns.Add("Email", typeof(String));

l.Columns.Add("Phone", typeof(String));

l.Columns.Add("Password", typeof(String));

l.Columns.Add("Gender", typeof(String));

l.Columns.Add("Hobby", typeof(String));

// Fetch Hobby Data

System.Text.StringBuilder hobby = new System.Text.StringBuilder(); for (int i = 0; i < txtHobby.Items.Count; i++)

{

if (txtHobby.Items[i].Selected)

{

hobby.Append(txtHobby.Items[i].Text);

hobby.Append(", ");

}

}

// Add Data In Row

l.Rows.Add(txtName.Text, txtEmail.Text, txtPhone.Text, txtPwd.Text, txtGender.SelectedValue,

hobby);

// Load the GridView gridLoad.DataSource

= l; gridLoad.DataBind();

}

}

}

**Home Page**

<%@ Page Title="Home Page" Language="C#"

MasterPageFile="~/SampleMasterPage.Master" AutoEventWireup="true"

CodeBehind="Home.aspx.cs" Inherits="WebApplication.Home" %>

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

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

<div class="row">

<div class="col-md-12">

<asp:GridView ID="GridView1" runat="server" Width="100%" CellPadding="4"

ForeColor="#333333" GridLines="None">

<AlternatingRowStyle BackColor="White" />

<EditRowStyle BackColor="#2461BF" />

<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" /> <PagerStyle BackColor="#2461BF" ForeColor="White"

HorizontalAlign="Center" />

<RowStyle BackColor="#EFF3FB" />

<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True"

ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F5F7FB" />

<SortedAscendingHeaderStyle BackColor="#6D95E1" />

<SortedDescendingCellStyle BackColor="#E9EBEF" />

<SortedDescendingHeaderStyle BackColor="#4870BE" /> </asp:GridView>

</div>

</div>

</div>

</asp:Content>

**Home.aspx.cs** using System; using System.Collections.Generic; using System.Data; using

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

namespace WebApplication

{

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

{

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

{

if(Session["email"] != null)

{

OleDbConnection con = new

OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data

Source=C:/Users/22mca109/source/repos/WebApplication/WevAppDB.accdb"); con.Open();

OleDbCommand cmd = new OleDbCommand("SELECT \* FROM [User]", con);

OleDbDataAdapter DA = new OleDbDataAdapter(cmd);

DataSet DS = new DataSet();

DA.Fill(DS);

GridView1.DataSource = DS; GridView1.DataBind(); con.Close();

} else

{

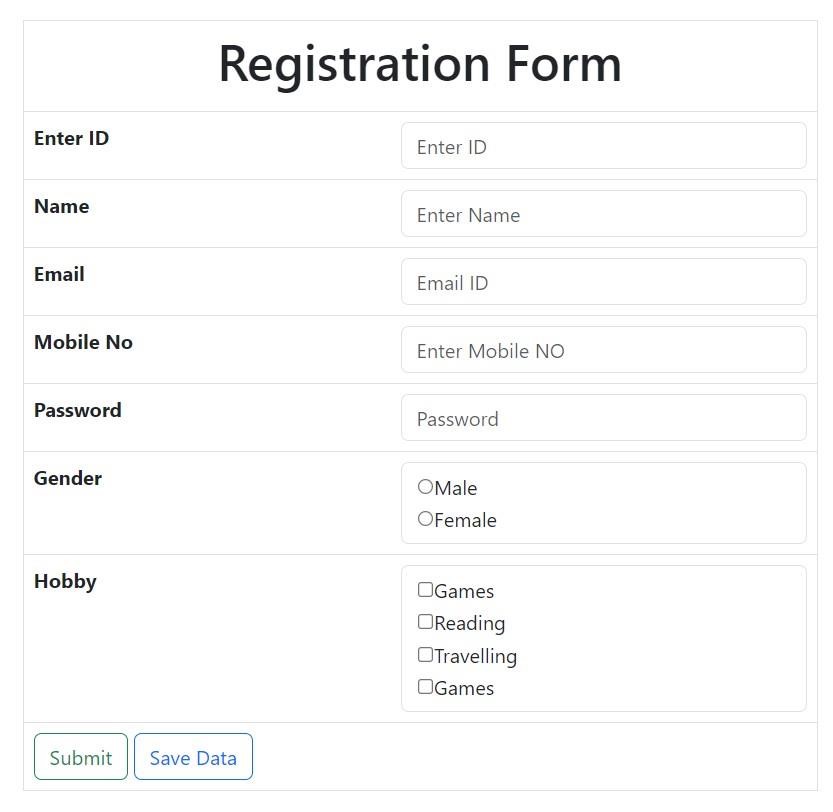
Response.Redirect("Login.aspx");

}

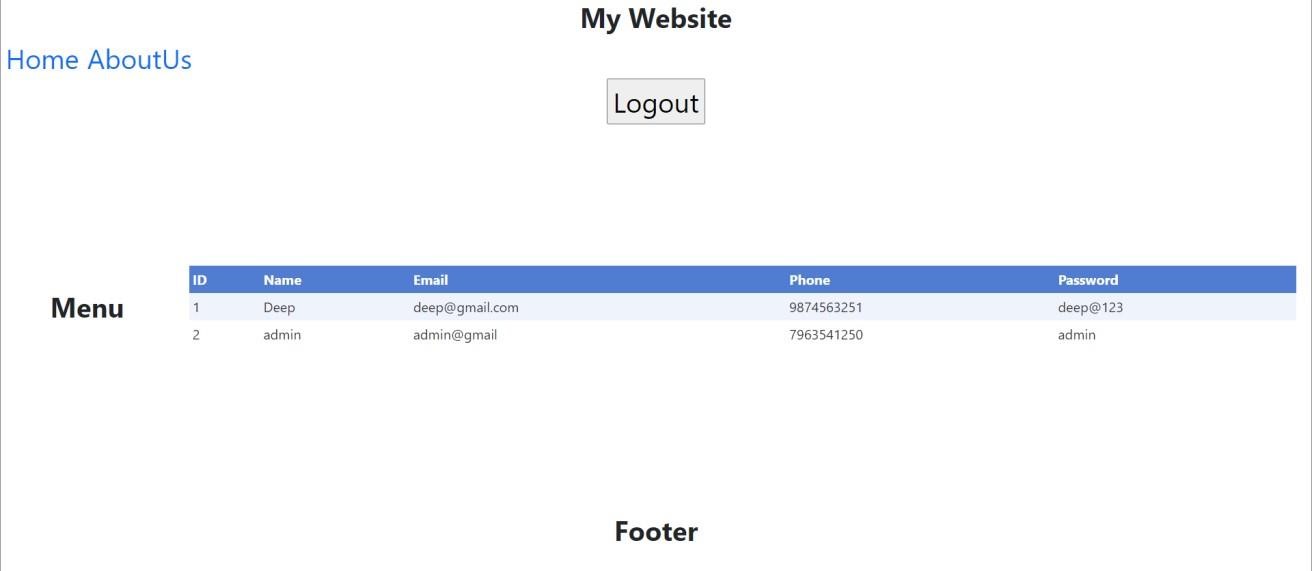
}

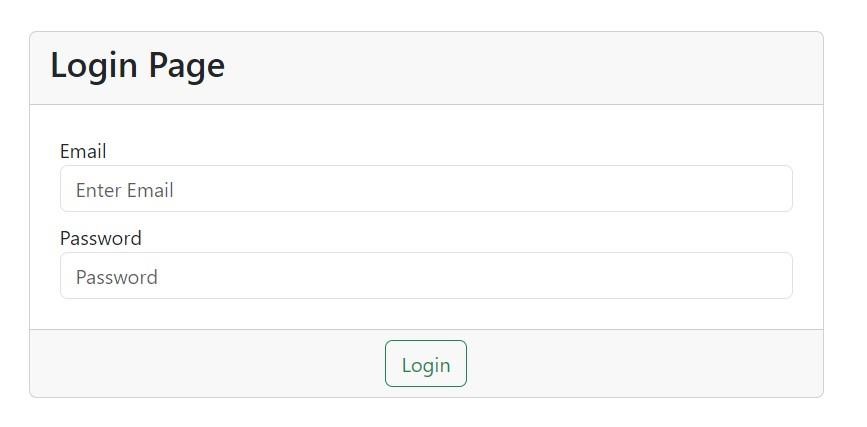
}

}









**13. Create ASP.NET application for login and registration using session and cookies.**

**Login Page**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs"

Inherits="CRUDOperation.Welcome" %>

<!DOCTYPE html>

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

<head runat="server"> <link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css" integrity="sha384- ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous" /> <title>Welcome Page</title>

</head>

<body>

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

<div class="container-fluid">

<div class="row mt-5 justify-content-center">

<div class="col-md-4">

<div class="card">

<div class="card-header">

<h1>Login Form</h1>

</div>

<div class="card-body">

<asp:Label ID="lbError" ForeColor="Red" runat="server"></asp:Label> <div class="m-2">

<asp:Label ID="Label11" runat="server" Text="Email"></asp:Label>

<asp:TextBox ID="txtEmail" TextMode="Email" CssClass="formcontrol" placeholder="Enter Email" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server" Display="Dynamic" ForeColor="Red" ControlToValidate="txtEmail"

ErrorMessage="Required"></asp:RequiredFieldValidator>

</div>

<div class="m-2">

<asp:Label ID="Label12" runat="server"

Text="Password"></asp:Label>

<asp:TextBox ID="txtPwd" TextMode="Password" CssClass="formcontrol" placeholder="Enter Password" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator6" runat="server" Display="Dynamic" ForeColor="Red" ControlToValidate="txtPwd"

ErrorMessage="Required"></asp:RequiredFieldValidator>

</div>

</div>

<div class="card-footer">

<asp:Button ID="btnLogin" OnClick="btnLogin\_Click" runat="server" CssClass="btn btn-outline-success" Text="Login"/>

</div>

</div>

</div>

</div>

</div>

</form>

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-

UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-

JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

</body>

</html>

**Login.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;

namespace CRUDOperation

{

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

{

SqlConnection con = new SqlConnection(@"Data

Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\22mca109\source\repos\

CRUDOperation\CRUDOperation\App\_Data\Database.mdf;Integrated Security=True"); protected void Page\_Load(object sender, EventArgs e)

{

}

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

{

string query = "select \*from [user] where Email=@Email and

Password=@Password";

SqlCommand cmd = new SqlCommand(query, con);

cmd.Parameters.AddWithValue("Email",txtEmail.Text);

cmd.Parameters.AddWithValue("Password", txtPwd.Text);

con.Open();

SqlDataReader sd = cmd.ExecuteReader();

if(sd.Read())

{

Session["userName"] = sd.GetString(1);

Response.Redirect("DisplayUser.aspx");

} else

{

lbError.Text = "Email And Password Not Match.";

}

con.Close();

}

}

}

**Register Page :**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Register.aspx.cs"

Inherits="CRUDOperation.Register" %>

<!DOCTYPE html>

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

<head runat="server">

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-

alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-

KK94CHFLLe+nY2dmCWGMq91rCGa5gtU4mk92HdvYe+M/SXH301p5ILy+dN9+nJOZ" crossorigin="anonymous" />

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0alpha3/dist/js/bootstrap.bundle.min.js" integrity="sha384-

ENjdO4Dr2bkBIFxQpeoTz1HIcje39Wm4jDKdf19U8gI4ddQ3GYNS7NTKfAdVQSZe" crossorigin="anonymous"></script>

<title>Register Page</title>

</head>

<body>

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

<div class="container-fluid">

<div class="row justify-content-center">

<div class="col-md-6">

<div class="card">

<div class="card-header">

<h2 class="text-center">Register Form</h2>

</div>

<div class="card-body">

<div class="m-2">

<asp:Label ID="lbName" runat="server" Text="Name"></asp:Label> <asp:TextBox ID="txtName" TextMode="SingleLine" CssClass="formcontrol" placeholder="Enter Name" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator1"

ControlToValidate="txtName" ForeColor="Red" Display="Dynamic" runat="server"

ErrorMessage="Require"></asp:RequiredFieldValidator>

</div>

<div class="m-2">

<asp:Label ID="lbEmail" runat="server" Text="Email"></asp:Label> <asp:TextBox ID="txtEmail" TextMode="Email" CssClass="formcontrol" placeholder="Enter Email" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator2"

ControlToValidate="txtEmail" ForeColor="Red" Display="Dynamic" runat="server"

ErrorMessage="Require"></asp:RequiredFieldValidator> <asp:RegularExpressionValidator ID="RegularExpressionValidator1"

ControlToValidate="txtEmail" ForeColor="Red" Display="Dynamic" runat="server"

ErrorMessage="Email Format not Valid" ValidationExpression="\w+([-+.']\w+)\*@\w+([.]\w+)\*\.\w+([.]\w+)\*"></asp:RegularExpressionValidator>

</div>

<div class="m-2">

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

<asp:TextBox ID="txtPwd" TextMode="Password" CssClass="formcontrol" placeholder="\*\*\*\*\*\*\*\*" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator3"

ControlToValidate="txtPwd" ForeColor="Red" Display="Dynamic" runat="server"

ErrorMessage="Require"></asp:RequiredFieldValidator>

</div>

<div class="m-2">

<asp:Label ID="lbCPwd" runat="server" Text="Confirm

Password"></asp:Label>

<asp:TextBox ID="txtCPwd" TextMode="Password" CssClass="formcontrol" placeholder="\*\*\*\*\*\*\*\*" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator4"

ControlToValidate="txtCPwd" ForeColor="Red" Display="Dynamic" runat="server"

ErrorMessage="Require"></asp:RequiredFieldValidator>

<asp:CompareValidator ID="CompareValidator1" runat="server"

ControlToCompare="txtPwd" ControlToValidate="txtCPwd" ForeColor="Red" Display="Dynamic" ErrorMessage="Password and Comfirm Password not match"></asp:CompareValidator>

</div>

<div class="m-2">

<asp:Label ID="Label8" runat="server" Text="Gender"></asp:Label> <asp:RadioButtonList ID="txtGender" CssClass="form-control" runat="server" RepeatDirection="Horizontal">

<asp:ListItem>Male</asp:ListItem>

<asp:ListItem>Female</asp:ListItem>

</asp:RadioButtonList>

<asp:RequiredFieldValidator ID="RequiredFieldValidator6" runat="server" Display="Dynamic" ForeColor="Red" ControlToValidate="txtGender"

ErrorMessage="Required"></asp:RequiredFieldValidator>

</div>

<div class="m-2">

<asp:Label ID="Label9" runat="server" Text="City"></asp:Label>

<asp:DropDownList ID="txtCity" CssClass="form-control" runat="server">

<asp:ListItem Value="">Select City</asp:ListItem>

<asp:ListItem Value="Surat">Surat</asp:ListItem>

<asp:ListItem Value="Baroda">Baroda</asp:ListItem>

<asp:ListItem Value="Vapi">Vapi</asp:ListItem>

<asp:ListItem Value="Valsad">Valsad</asp:ListItem>

<asp:ListItem Value="Ahemdabad">Ahemdabad</asp:ListItem> </asp:DropDownList>

<asp:RequiredFieldValidator ID="RequiredFieldValidator7" runat="server" Display="Dynamic" ForeColor="Red" ControlToValidate="txtCity"

ErrorMessage="Required"></asp:RequiredFieldValidator>

</div>

<div class="m-2">

<asp:Label ID="lbAddress" runat="server" Text="Enter

Address"></asp:Label>

<asp:TextBox ID="txtAddress" TextMode="MultiLine" CssClass="formcontrol" placeholder="Enter Address Here..." runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator5"

ControlToValidate="txtAddress" ForeColor="Red" Display="Dynamic" runat="server" ErrorMessage="Require"></asp:RequiredFieldValidator>

</div>

</div>

<div class="card-footer"> <div class="m-2">

<asp:Button ID="btnSave" CssClass="btn btn-outline-success" runat="server" Text="Save" OnClick="btnSave\_Click" />

</div>

</div>

</div>

</div>

</div>

</div>

</form>

</body>

</html>

**Register.aspx.cs** using System; using

System.Collections.Generic; using

System.Configuration; using

System.Data.SqlClient; using

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

namespace CRUDOperation

{

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

{

SqlConnection con = new

SqlConnection(ConfigurationManager.ConnectionStrings["ConEmp"].ConnectionString);

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

{

if (Session["userName"] == null)

{

Response.Redirect("Login.aspx");

}

}

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

{

string query = "insert into

[user](Name,Email,Password,Gender,City,Address,DOB)values(@Name,@Email,@Passw ord,@Gender,@City,@Address,@DOB)";

SqlCommand cmd = new SqlCommand(query, con);

cmd.Parameters.AddWithValue("Name", txtName.Text);

cmd.Parameters.AddWithValue("Email", txtEmail.Text); cmd.Parameters.AddWithValue("Password", txtPwd.Text); cmd.Parameters.AddWithValue("Address", txtAddress.Text); cmd.Parameters.AddWithValue("Gender", txtGender.SelectedValue); cmd.Parameters.AddWithValue("City", txtCity.SelectedValue); cmd.Parameters.AddWithValue("DOB", DateTime.Now);

try

{

con.Open();

cmd.ExecuteNonQuery();

}

catch(Exception ex)

{

Response.Write("<script>alert('" + ex + "')</script>");

} finally

{

con.Close();

}

Response.Redirect("DisplayUser.aspx");

txtName.Text = String.Empty;

txtEmail.Text = String.Empty; txtPwd.Text =

String.Empty; txtAddress.Text = String.Empty;

txtGender.Text = String.Empty;

txtCity.Text = String.Empty;

}

}

}

**Welcome Page**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Welcome.aspx.cs"

Inherits="CRUDOperation.Welcome1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css" integrity="sha384- ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous" />

</head>

<body>

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

<div class="container-fluid">

<div class="row mt-5 justify-content-center">

<div class="col-md-6">

<h1>Welcome,

<asp:Label ID="lbUserName" runat="server"></asp:Label></h1>

</div>

<!-- Button trigger modal -->

<asp:Button ID="btnNewUser" runat="server" OnClick="btnNewUser\_Click"

CssClass="btn btn-outline-primary" Text="Add New User" />

</div>

<div class="row mt-5 justify-content-center">

<div class="col-md-6">

<asp:GridView ID="GridView1" DataKeyNames="Id"

AutoGenerateColumns="False" OnRowCancelingEdit="GridView1\_RowCancelingEdit"

OnRowDeleting="GridView1\_RowDeleting" OnRowUpdating="GridView1\_RowUpdating"

OnRowEditing="GridView1\_RowEditing" runat="server">

<Columns>

<asp:TemplateField HeaderText="Name">

<EditItemTemplate>

<asp:TextBox ID="TextBox1" runat="server" Text='<%#

Bind("Name") %>'></asp:TextBox>

</EditItemTemplate> <ItemTemplate>

<asp:Label ID="Label1" runat="server" Text='<%# Eval("Name") %>'></asp:Label> </ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Email">

<EditItemTemplate>

<asp:TextBox ID="TextBox2" runat="server" Text='<%#

Bind("Email") %>'></asp:TextBox>

</EditItemTemplate>

<ItemTemplate>

<asp:Label ID="Label2" runat="server" Text='<%# Eval("Email")

%>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Password">

<EditItemTemplate>

<asp:TextBox ID="TextBox3" runat="server" Text='<%#

Bind("Password") %>'></asp:TextBox>

</EditItemTemplate>

<ItemTemplate>

<asp:Label ID="Label3" runat="server" Text='<%# Eval("Password") %>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

<asp:CommandField HeaderText="Action" ShowDeleteButton="True"

ShowEditButton="True" ShowHeader="True" />

</Columns>

</asp:GridView>

</div>

</div>

</div>

</form>

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-

UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-

JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

</body>

</html>

**Welcome.aspx.cs** using System; using

System.Collections.Generic; using

System.Configuration; using System.Data; using System.Data.SqlClient;

using System.Linq; using

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

namespace CRUDOperation

{

public partial class Welcome1 : System.Web.UI.Page

{

SqlConnection con = new

SqlConnection(ConfigurationManager.ConnectionStrings["ConEmp"].ConnectionString); protected void Page\_Load(object sender, EventArgs e)

{

if (Session["userName"] != null)

{

LoadData();

lbUserName.Text = Session["userName"].ToString();

} else

{

Response.Redirect("Login.aspx");

}

}

private void LoadData()

{

DataTable dt = new DataTable();

SqlDataAdapter da = new SqlDataAdapter("select \*from [user]", con); con.Open(); da.Fill(dt);

con.Close();

if (dt.Rows.Count > 0)

{

GridView1.DataSource = dt;

GridView1.DataBind();

}

}

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

{

Response.Redirect("Register.aspx");

}

protected void GridView1\_RowCancelingEdit(object sender,

GridViewCancelEditEventArgs e)

{

GridView1.EditIndex = -1;

LoadData();

}

protected void GridView1\_RowDeleting(object sender, GridViewDeleteEventArgs e)

{ }

protected void GridView1\_RowUpdating(object sender, GridViewUpdateEventArgs e)

{

}

protected void GridView1\_RowEditing(object sender, GridViewEditEventArgs e)

{

GridView1.EditIndex = e.NewEditIndex;

LoadData();

}

}

}

**DisplayUser Page**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="DisplayUser.aspx.cs"

Inherits="CRUDOperation.DisplayUser" %>

<!DOCTYPE html>

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

<head runat="server"> <link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css" integrity="sha384- ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous" /> <title>CRUD Operation</title>

</head>

<body>

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

<div class="container-fluid">

<div class="row mt-5 justify-content-center">

<div class="col-md-6">

<h1>Welcome,

<asp:Label ID="lbUserName" runat="server"></asp:Label></h1>

</div>

<!-- Button trigger modal -->

<asp:Button ID="btnNewUser" runat="server" OnClick="btnNewUser\_Click"

CssClass="btn btn-outline-primary" Text="Add New User" />

</div>

<div class="row mt-5 justify-content-center">

<div class="col-md-6">

<asp:GridView ID="GridView1" CssClass="table" runat="server"

Width="100%" DataKeyNames="Id" AutoGenerateColumns="False" CellPadding="4"

ForeColor="#333333" GridLines="None"

OnRowCancelingEdit="GridView1\_RowCancelingEdit"

OnRowDeleting="GridView1\_RowDeleting" OnRowEditing="GridView1\_RowEditing"

OnRowUpdating="GridView1\_RowUpdating">

<AlternatingRowStyle BackColor="White" />

<Columns>

<asp:CommandField HeaderText="Action" ShowDeleteButton="True"

ShowEditButton="True" ShowHeader="True" />

<asp:TemplateField HeaderText="ID">

<EditItemTemplate>

<asp:Label ID="Label2" runat="server" Text='<%# Eval("Id") %>'></asp:Label> </EditItemTemplate> <ItemTemplate>

<asp:Label ID="Label1" runat="server" Text='<%# Eval("Id") %>'></asp:Label> </ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Name">

<EditItemTemplate>

<asp:TextBox ID="Name" TextMode="SingleLine" runat="server"

Text='<%# Bind("Name") %>'></asp:TextBox>

</EditItemTemplate>

<ItemTemplate>

<asp:Label ID="Label3" runat="server" Text='<%# Eval("Name") %>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Address">

<EditItemTemplate>

<asp:TextBox ID="Address" TextMode="SingleLine" runat="server"

Text='<%# Bind("Address") %>'></asp:TextBox>

</EditItemTemplate> <ItemTemplate>

<asp:Label ID="Label5" runat="server" Text='<%# Eval("Address") %>'></asp:Label> </ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Gender">

<EditItemTemplate>

<asp:RadioButtonList ID="Gender" runat="server"

SelectedValue='<%# Eval("Gender").ToString() %>'>

<asp:ListItem Value="Male">Male</asp:ListItem>

<asp:ListItem Value="Female">Female</asp:ListItem>

</asp:RadioButtonList>

</EditItemTemplate> <ItemTemplate>

<asp:Label ID="Label6" runat="server" Text='<%# Eval("Gender") %>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="City">

<EditItemTemplate>

<asp:DropDownList ID="City" runat="server" SelectedValue='<%# Eval("City").ToString() %>'>

<asp:ListItem Value="Surat">Surat</asp:ListItem>

<asp:ListItem Value="Baroda">Baroda</asp:ListItem>

<asp:ListItem Value="Vapi">Vapi</asp:ListItem>

<asp:ListItem Value="Valsad">Valsad</asp:ListItem>

<asp:ListItem Value="Ahemdabad">Ahemdabad</asp:ListItem> </asp:DropDownList>

</EditItemTemplate> <ItemTemplate>

<asp:Label ID="Label7" runat="server" Text='<%# Eval("City") %>'></asp:Label> </ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Email">

<EditItemTemplate>

<asp:TextBox ID="Email" TextMode="Email" runat="server"

Text='<%# Bind("Email") %>'></asp:TextBox>

</EditItemTemplate> <ItemTemplate>

<asp:Label ID="Label14" runat="server" Text='<%# Eval("Email") %>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Password"> <EditItemTemplate>

<asp:TextBox ID="Pwd" TextMode="Password" runat="server"

Text='<%# Bind("Password") %>'></asp:TextBox>

</EditItemTemplate>

<ItemTemplate>

<asp:Label ID="Label15" runat="server" Text='<%#

Eval("Password") %>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

</Columns>

<EditRowStyle BackColor="#2461BF" />

<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" /> <PagerStyle BackColor="#2461BF" ForeColor="White"

HorizontalAlign="Center" />

<RowStyle BackColor="#EFF3FB" />

<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True"

ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F5F7FB" />

<SortedAscendingHeaderStyle BackColor="#6D95E1" />

<SortedDescendingCellStyle BackColor="#E9EBEF" />

<SortedDescendingHeaderStyle BackColor="#4870BE" /> </asp:GridView>

</div>

</div>

</div>

</form>

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-

UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-

JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

</body>

</html>

**DisplayUser.aspx.cs** using System; using System.Collections.Generic; using

System.Data; using

System.Data.SqlClient; using

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

{

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

{

SqlConnection con = new SqlConnection(@"Data

Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\22mca109\source\repos\

CRUDOperation\CRUDOperation\App\_Data\Database.mdf;Integrated Security=True"); protected void Page\_Load(object sender, EventArgs e)

{

if (Session["userName"] != null)

{

LoadData();

lbUserName.Text = Session["userName"].ToString();

} else

{

Response.Redirect("Login.aspx");

}

}

private void LoadData()

{

DataTable dt = new DataTable();

SqlDataAdapter da = new SqlDataAdapter("select \*from [user]",con); con.Open(); da.Fill(dt);

con.Close();

if(dt.Rows.Count > 0)

{

GridView1.DataSource = dt;

GridView1.DataBind();

}

}

protected void GridView1\_RowDeleting(object sender, GridViewDeleteEventArgs e)

{

int id = Convert.ToInt32(GridView1.DataKeys[e.RowIndex].Values["Id"].ToString());

con.Open();

SqlCommand cmd = new SqlCommand("Delete from [user] where Id=@Id",con); cmd.Parameters.AddWithValue("Id",id); cmd.ExecuteNonQuery(); con.Close();

LoadData();

}

protected void GridView1\_RowEditing(object sender, GridViewEditEventArgs e)

{

GridView1.EditIndex = e.NewEditIndex;

LoadData();

}

protected void GridView1\_RowUpdating(object sender, GridViewUpdateEventArgs e)

{

TextBox txtname = GridView1.Rows[e.RowIndex].FindControl("Name") as TextBox; TextBox

txtaddress = GridView1.Rows[e.RowIndex].FindControl("Address") as TextBox;

RadioButtonList txtGender = GridView1.Rows[e.RowIndex].FindControl("Gender") as RadioButtonList;

DropDownList txtCity = GridView1.Rows[e.RowIndex].FindControl("City") as DropDownList;

TextBox txtemail = GridView1.Rows[e.RowIndex].FindControl("Email") as TextBox; TextBox txtpwd = GridView1.Rows[e.RowIndex].FindControl("Pwd") as TextBox; int id = Convert.ToInt32(GridView1.DataKeys[e.RowIndex].Values["Id"].ToString());

Response.Write("<script>alert('"+ txtGender.SelectedValue +"')</script>");

con.Open();

SqlCommand cmd = new SqlCommand("update [user] set

Name=@Name,Address=@Address,Gender=@Gender,City=@City,Email=@Email,Passw ord=@Password where Id=@Id", con); cmd.CommandType = CommandType.Text;

cmd.Parameters.AddWithValue("Id", id); cmd.Parameters.AddWithValue("Name", txtname.Text); cmd.Parameters.AddWithValue("Address", txtaddress.Text);

cmd.Parameters.AddWithValue("Gender", txtGender.SelectedValue.ToString());

cmd.Parameters.AddWithValue("City", txtCity.SelectedValue.ToString());

cmd.Parameters.AddWithValue("Email", txtemail.Text); cmd.Parameters.AddWithValue("Password", txtpwd.Text); cmd.ExecuteNonQuery(); con.Close();

GridView1.EditIndex = -1;

LoadData();

}

protected void GridView1\_RowCancelingEdit(object sender,

GridViewCancelEditEventArgs e)

{

GridView1.EditIndex = -1;

LoadData();

}

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

{

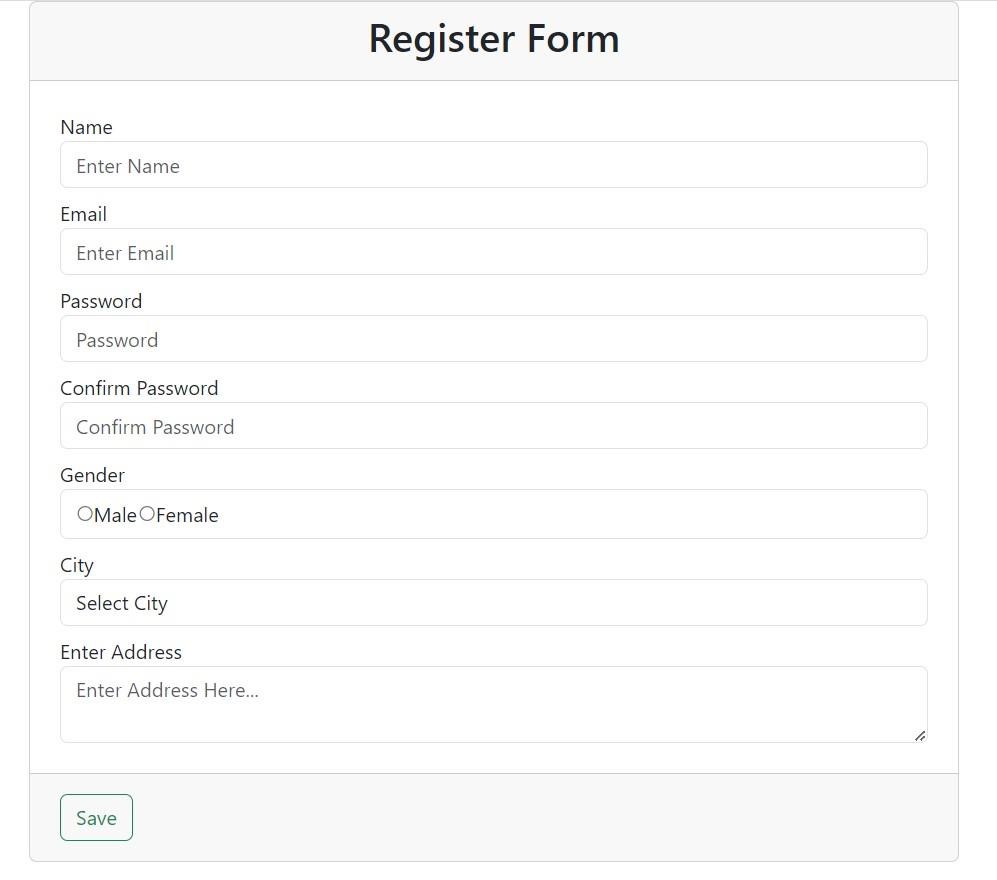
Response.Redirect("Register.aspx");

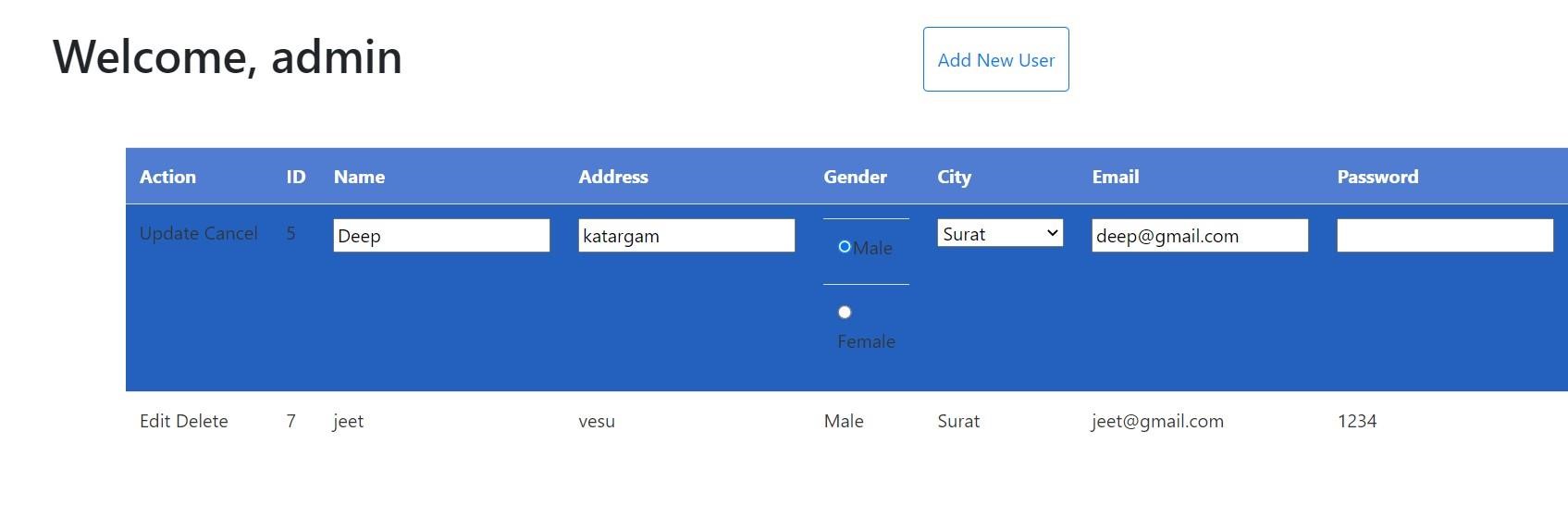
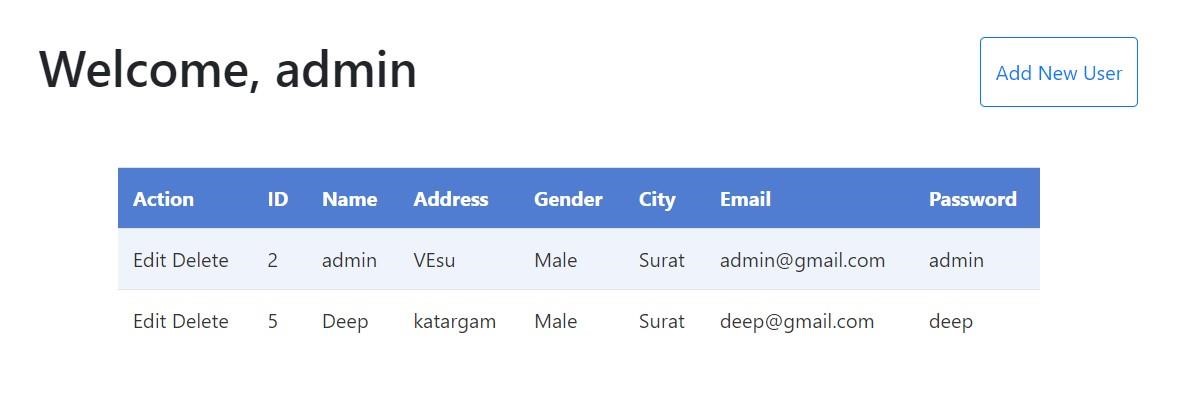
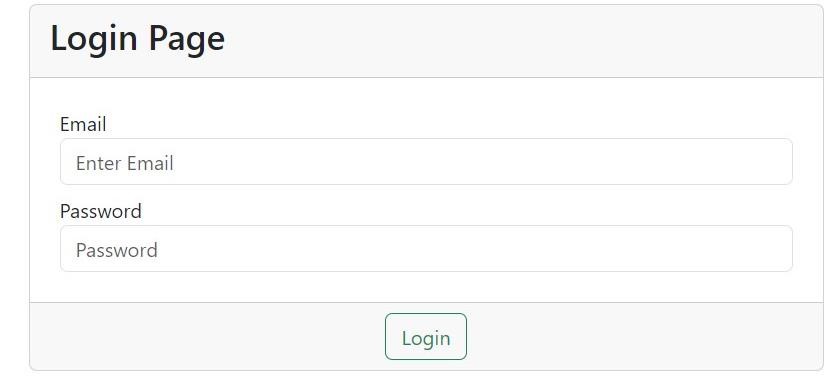
}

}

}

**Output :**





**14 - Demonstrate web applications with AJAX.**

**Date and Time Example :**

**WebForm2.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs" Inherits="ajaxxx.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:ScriptManager ID="ScriptManager1" runat="server">

</asp:ScriptManager>

<br />

<asp:UpdatePanel ID="UpdatePanel1" runat="server">

<ContentTemplate>

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

<asp:Button ID="Button1" runat="server" Text="Button"

OnClick="Button1\_Click" />

<asp:Timer ID="Timer1" runat="server" OnTick="Timer1\_Tick" Interval="5000"> </asp:Timer>

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

</ContentTemplate>

</asp:UpdatePanel>

</div>

</form>

</body>

</html>

**WebForm2.aspx.cs** using System;

using System.Collections.Generic; using

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

namespace ajax

{

public partial class WebForm2 : System.Web.UI.Page

{

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

{

}

protected void Timer1\_Tick(object sender, EventArgs e)

{

Label1.Text = DateTime.Now.ToString();

}

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

{

Label2.Text = "hello";

}

}

}

**Output :**



**Country And State Example**

**WebForm1.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="ajaxxx.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:ScriptManager ID="ScriptManager1" runat="server">

</asp:ScriptManager>

<br />

<asp:UpdatePanel ID="UpdatePanel1" runat="server">

<ContentTemplate>

<asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True"

DataSourceID="SqlDataSource1" DataTextField="cname" DataValueField="cid"

OnSelectedIndexChanged="DropDownList1\_SelectedIndexChanged">

</asp:DropDownList>

<asp:SqlDataSource ID="SqlDataSource1" runat="server"

ConnectionString="<%$ ConnectionStrings:ConnectionString %>"

SelectCommand="SELECT \* FROM [con]"></asp:SqlDataSource>

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

<asp:DropDownList ID="DropDownList2" runat="server"

AutoPostBack="True">

</asp:DropDownList>

</ContentTemplate>

</asp:UpdatePanel>

</div>

</form>

</body>

</html>

**WebForm1.aspx.cs** using System; using System.Collections.Generic; using System.Data; using System.Data.SqlClient;

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

namespace ajaxxx

{

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; dis(int.Parse(DropDownList1.SelectedValue));

}

private void dis(int cid)

{

SqlConnection san = new SqlConnection(@"Data

Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=D:\new

C#\ajaxxx\App\_Data\Database1.mdf;Integrated Security=True");

SqlDataAdapter sas = new SqlDataAdapter("select \* from sta where cid='" + cid+"'", san);

DataTable dt = new DataTable(); sas.Fill(dt);

DropDownList2.DataSource = dt;

DropDownList2.DataBind();

DropDownList2.DataTextField = "sname";

DropDownList2.DataValueField = "sid";

DropDownList2.DataBind();

}

}

}

**Output :**

