**Practical No. 1**

**Aim:-** Write a program to Demonstrate Addition of two numbers.

**Program:-**

using System;

public class Addition

{

public static void Main(string[] args)

{

int num1 = 10;

int num2 = 20;

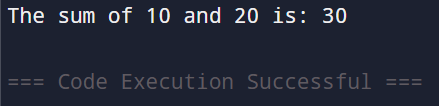
int sum = num1 + num2;

Console.WriteLine("The sum of " + num1 + " and " + num2 + " is: " + sum);

}

}

**Output:-**

****

**Practical No. 2**

**Aim:-** Write a program to Demonstrate Addition of two numbers by taking input from user.

**Program:-**

using System;

class Addition

{

public static void Main ()

{

int num1, num2, sum;

Console.WriteLine("Enter the first number: ");

num1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter the second number: ");

num2 = Convert.ToInt32(Console.ReadLine());

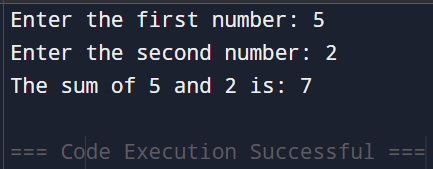
sum = num1 + num2;

Console.WriteLine("The sum of " + num1 + " and " + num2 + " is: " + sum);

}

}

**Output:-**

****

**Practical No. 3**

**Aim:-** Addition of two numbers by taking input from user by calling method.

**Program:-**

using System;

class Program

{

static int Add(int a, int b)

{

return a + b;

}

public static void Main()

{

int num1, num2, sum;

Console.WriteLine("Enter the first number:");

num1 = int.Parse(Console.ReadLine());

Console.WriteLine("Enter the second number:");

num2 = int.Parse(Console.ReadLine());

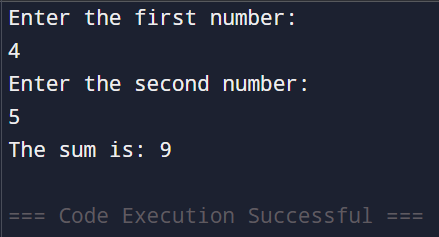
sum = Add(num1, num2);

Console.WriteLine("The sum is: " + sum);

}

}

**Output:-**

****

**Practical No. 4**

**Aim:-** Write a program to Demonstrate Table (for loop).

**Program:-**

using System;

class Program

{

public static void Main()

{

Console.Write("Enter a number to print table:");

int num = int.Parse(Console.ReadLine());

Console.WriteLine("Multiplication Table of " + num + ":");

for (int i = 1; i <= 10; i++)

{

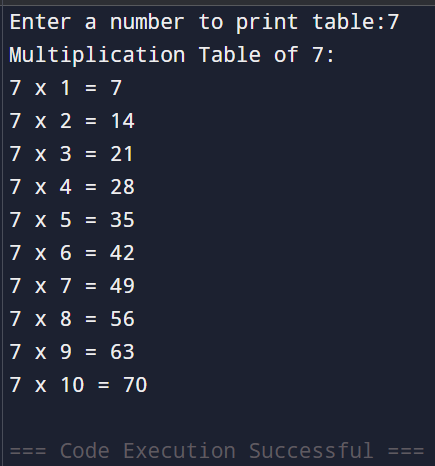
Console.WriteLine(num + " x " + i + " = " + (num \* i));

}

}

}

**Output:-**



**Practical No. 5**

**Aim:-** Write a program to Demonstrate foreach loop.

**Program:-**

using System;

class Program

{

public static void Main ()

{

string[] colors = { "Purple", "Green", "Red", "Pink" };

Console.WriteLine("List of Colors:");

foreach (string color in colors)

{

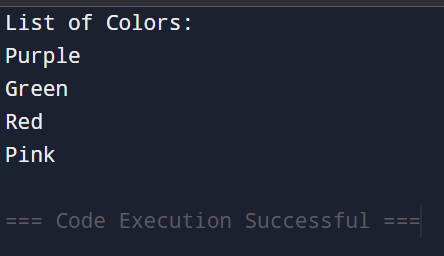
Console.WriteLine(color);

}

}

}

**Output:-**

****

**Practical No. 6**

**Aim:-** Write a program to Demonstrate break and continue.

**Program:-**

using System;

class Demo

{

public static void Main ()

{

Console.WriteLine("Break Example:-");

for (int i = 0; i < 5; i++)

{

if (i == 2)

{

Console.WriteLine("Breaking the loop at number 2 using 'break'. \n ");

break;

}

Console.WriteLine("Number: "+ i );

}

Console.WriteLine("Continue Example:-");

for (int i = 1; i <= 5; i++)

{

if ( i == 3)

{

Console.WriteLine("Skiping iteration at number 3 using 'continue'. ");

continue;

}

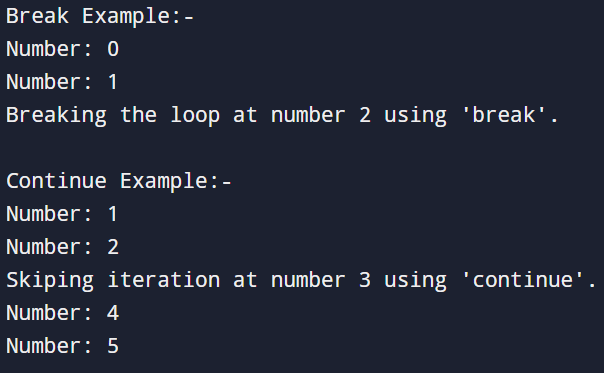
Console.WriteLine("Number: "+ i );

}

}

}

**Output:-**

****

**Practical No.7**

**Aim:-** Write a program to Demonstrate Jagged Array.

**Program:-**

using System;

class JaggedArray

{

public static void Main ()

{

int [] [] num = new int [3] [];

num [0] = new int [] { 1, 2 };

num [1] = new int [] { 3, 4, 5 };

num [2] = new int [] { 6, 7, 8, 9 };

Console.WriteLine("Jagged Array Elements:");

for (int i = 0; i < num.Length; i++)

{

Console.Write("Row " + i + ": ");

for (int j = 0; j < num [i].Length; j++)

{

Console.Write(num [i] [j] + " ");

}

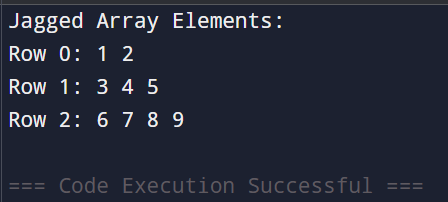
Console.WriteLine();

}

}

}

**Output:-**

****

**Practical No. 8**

**Aim:-** Write a program to Demonstrate Properties.

**Program:-**

using System;

class MyClass

{

private int \_x;

public int X

{

get { return \_x; }

set { \_x = value; }

}

}

class MyClient

{

public static void Main(string[] args)

{

MyClass mc = new MyClass();

mc.X = 10;

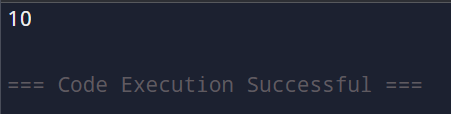
int xval = mc.X;

Console.WriteLine(xval);

}

}

**Output:-**

****

**Practical No. 9**

**Aim:-** Write a program to Demonstrate Method Overriding.

**Program:-**

using System;

class Animal

{

public virtual void sound()

{

Console.WriteLine("The animal makes a sound.");

}

}

class Dog : Animal

{

public override void sound()

{

Console.WriteLine("The dog barks.");

}

}

class Demo

{

public static void Main ()

{

Animal a = new Animal ();

Dog d = new Dog ();

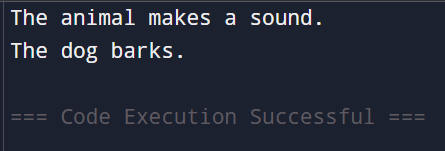
a.sound ();

d.sound ();

}

}

**Output:-**

****

**Practical No. 10**

**Aim:-** Write a program to Demonstrate Method Overloading.

**Program:-**

using System;

class Animal

{

void Show(string a)

{

Console.WriteLine("This is a " + a);

}

void Show(string a1, string a2)

{

Console.WriteLine("This is a " + a1 + " and a " + a2);

}

public static void Main()

{

Animal an= new Animal();

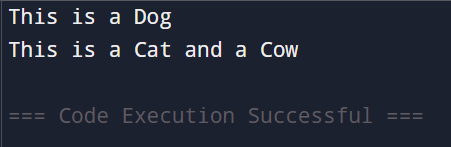
an.Show("Dog");

an.Show("Cat", "Cow");

}

}

**Output:-**



**Practical No. 11**

**Aim:-** Write a program to Demonstrate Inheritance.

**Program:-**

using System;

class Animal

{

public void eat ()

{

Console.WriteLine("Animal is eating.");

}

}

class Dog : Animal

{

public void bark ()

{

Console.WriteLine("Dog is barking.");

}

}

class Demo

{

public static void Main ()

{

Dog mydog = new Dog ();

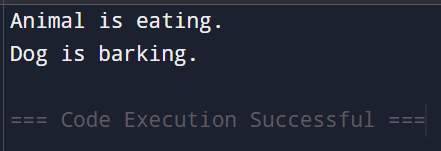
mydog.eat ();

mydog.bark ();

}

}

**Output:-**

****

**Practical No. 12**

**Aim:-** Write a program to Demonstrate Multiple Inheritance (Interface).

**Program:-**

using System;

interface Animal

{

void eat ();

}

interface Bird

{

void fly ();

}

class Parrot : Animal, Bird

{

public void eat ()

{

Console.WriteLine("Parrot is eating seeds.");

}

public void fly ()

{

Console.WriteLine("Parrot is flying");

}

}

class Demo

{

public static void Main ()

{

Parrot p = new Parrot ();

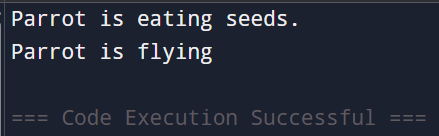
p.eat();

p.fly();

}

}

**Output:-**

****

**Practical No. 13**

**Aim:-** Write a program to Demonstrate Abstract Method.

**Program:-**

using System;

abstract class Animal

{

public abstract void sound ();

public void sleep ()

{

Console.WriteLine("The animal is sleeping..");

}

}

class Dog : Animal

{

public override void sound ()

{

Console.WriteLine("The dog barks.");

}

}

class Program

{

public static void Main ()

{

Dog myDog = new Dog ();

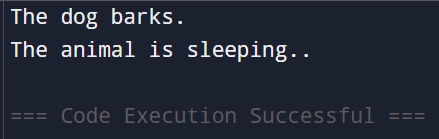
myDog.sound();

myDog.sleep();

}

}

**Output:-**

****

**Practical No. 14**

**Aim:-** Write a program to Demonstrate Interface.

**Program:-**

using System;

interface Vehicle

{

void start ();

void stop ();

}

class Car : Vehicle

{

public void start ()

{

Console.WriteLine("Car started.");

}

public void stop ()

{

Console.WriteLine("Car stopped.");

}

}

class Demo

{

public static void Main ()

{

Car myCar = new Car ();

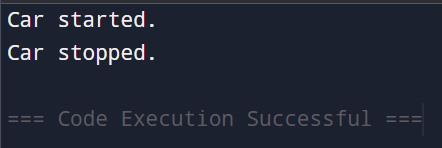
myCar.start();

myCar.stop();

}

}

**Output:-**

****

**Practical No. 15**

**Aim:-** Write a program to Demonstrate Generic Class.

**Program:-**

using System;

class Gen <T>

{

private T a;

public T value;

public T get()

{

return a;

}

public void set (T value)

{

a = value;

}

}

class Demo

{

public static void Main ()

{

Gen <int> obj1 = new Gen <int> ();

obj1.value = 10;

Console.WriteLine("Int: " + obj1.value);

Gen <float> obj2 = new Gen <float> ();

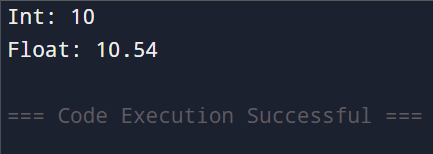
obj2.value = 10.54f;

Console.WriteLine("Float: " + obj2.value);

}

}

**Output:-**

****

**Practical No. 16**

**Aim:-** Write a program to perform Factorial of a number

**Program:-**

using System;

class Factorial

{

public static void Main(string[] args)

{

Console.Write("Enter a number:");

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

int fact = 1;

for(int i= 1; i<=num; i++)

{

fact = fact\*i;

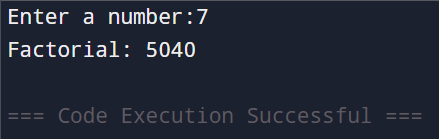
}

Console.WriteLine("Factorial: " + fact );

}

}

**Output:-**

****

**Practical No. 17**

**Aim:-** Write a program to perform Reverse of a number.

Program:-

using System;

class Reverse

{

public static void Main()

{

Console.Write("Enter a number:");

int num = int.Parse(Console.ReadLine());

int rev = 0;

int rem;

while (num != 0)

{

rem = num % 10;

rev = rev \* 10 + rem;

num = num / 10;

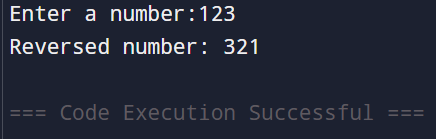
}

Console.WriteLine("Reversed number: " + rev);

}

}

Output:-



**Practical No. 18**

**Aim:-** Write a program to perform Palindrome of a number.

**Program:-**

using System;

class Palindrome

{

public static void Main()

{

Console.Write("Enter a number:");

int num = int.Parse(Console.ReadLine());

int rev = 0;

int rem;

int og = num;

while (num != 0)

{

rem = num % 10;

rev = rev \* 10 + rem;

num = num / 10;

}

Console.WriteLine("Reversed number: " + rev);

if (rev == og)

{

Console.Write("Palindrome");

}

else

{

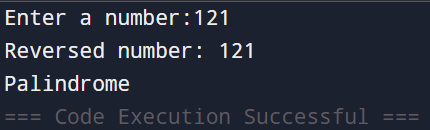
Console.Write("Not a Palindrome");

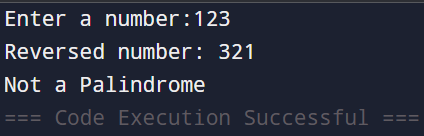
}

}

}

**Output:-**





**Practical No. 19**

**Aim:-** Program to create a login form. If username and password are "admin", display

"WELCOME!!!", else display "Login Failed!!".

**Program:-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practicals

{

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

{

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

{

}

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

{

string uname = TextBox1.Text;

string pass = TextBox2.Text;

if (uname == "admin" && pass == "admin")

{ Label1.Text = "WELCOME!!!"; }

else

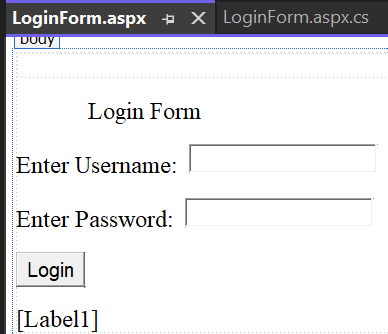
{ Label1.Text = "LOGIN FAILED!!!"; }

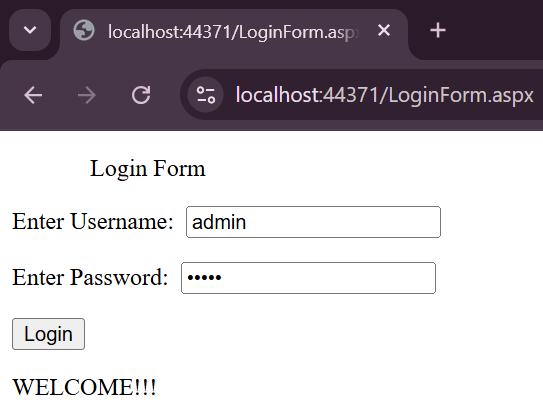
}

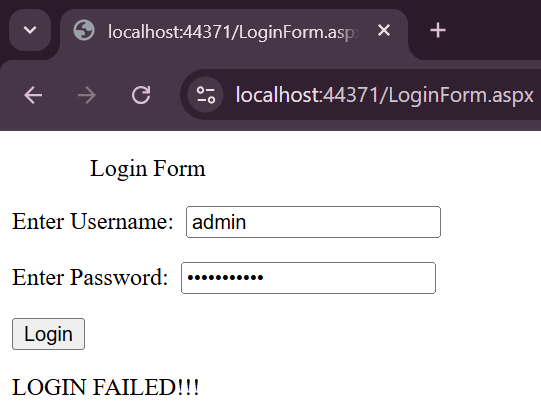
}

}

**Output:-**

****

****

****

**Practical No. 20**

**Aim:-** Program using AutoPostBack to change Label font (face & size) and display selected country code.

**Program:-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practicals

{

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

{

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

{

}

protected void rdb1\_CheckedChanged(object sender, EventArgs e)

{

Label1.Font.Name = "Calibri";

}

protected void rdb2\_CheckedChanged1(object sender, EventArgs e)

{

Label1.Font.Name = "Times New Roman";

}

protected void rdb3\_CheckedChanged(object sender, EventArgs e)

{

Label1.Font.Name = "Algerian";

}

protected void rdb4\_CheckedChanged(object sender, EventArgs e)

{

Label1.Font.Size = 16;

}

protected void rdb5\_CheckedChanged(object sender, EventArgs e)

{

Label1.Font.Size = 20;

}

protected void rdb6\_CheckedChanged(object sender, EventArgs e)

{

Label1.Font.Size = 24;

}

protected void DropDownList1\_SelectedIndexChanged(object sender, EventArgs e)

{

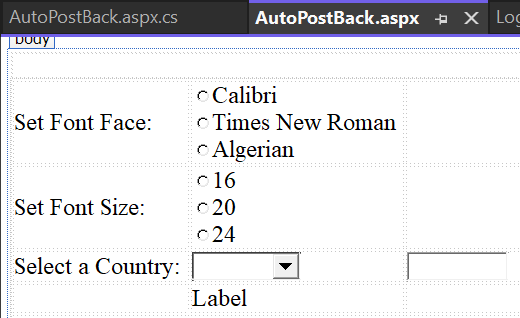
tb1.Text = DropDownList1.SelectedItem.Value;

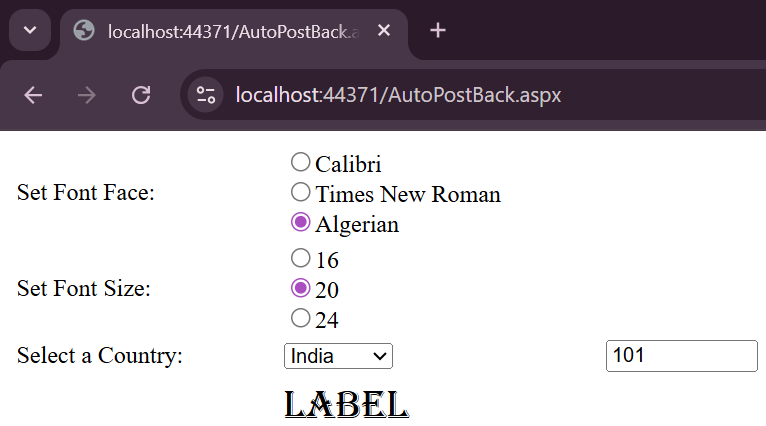
}

}

}

**Output:-**

****

****

**Practical No. 21**

**Aim:-** Program to create a Registration Form using Validation Controls (RequiredFieldValidator, RegularExpressionValidator, RangeValidator).

**Program:-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Project1

{

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

{

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

{

}

protected void btn1\_Click(object sender, EventArgs e)

{

string fn, ln, gen, dt, mn, yr, dob, strm;

fn = txtfn.Text;

ln = txtln.Text;

dt = txtdt.Text;

mn = txtmn.Text;

yr = txtyr.Text;

dob = dt + "-" + mn + "-" + yr;

if (rdbm.Checked == true)

{

gen = "Male";

}

else

{

gen = "Female";

}

strm = drpstrm.SelectedItem.Text;

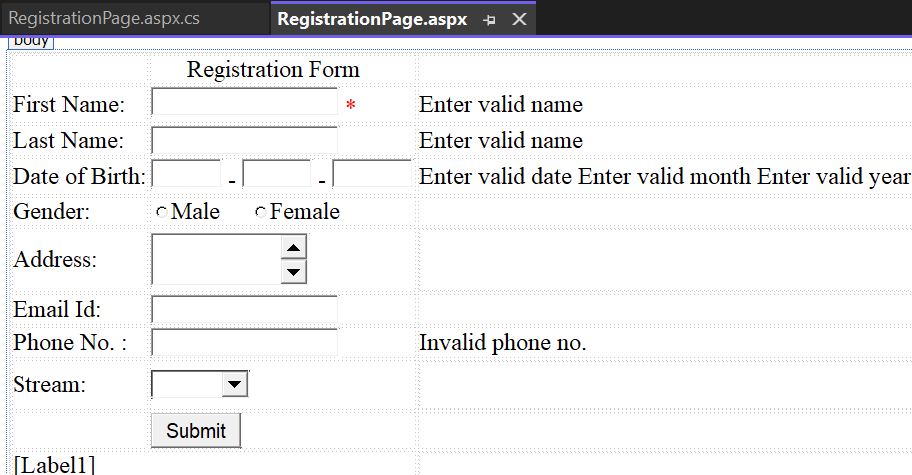
Label1.Text = "WELCOME " + fn + ln;

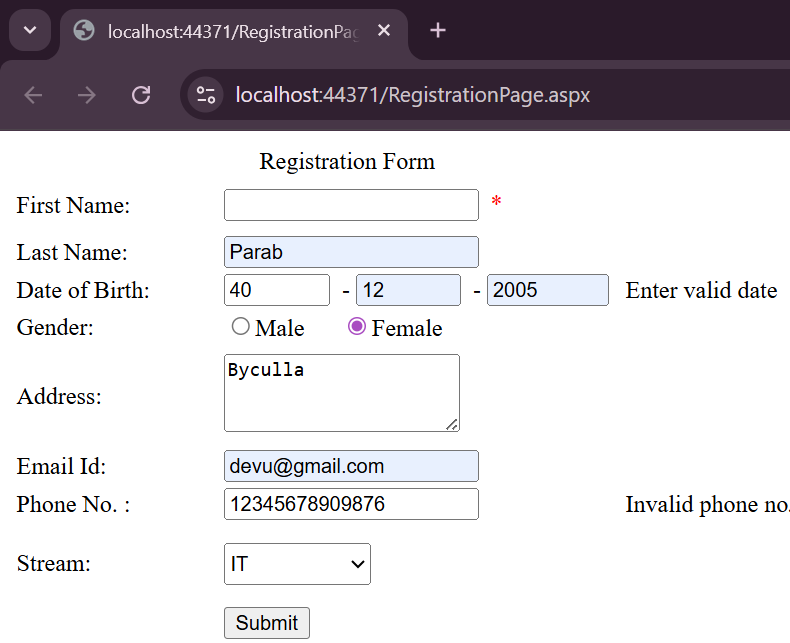
}

}

}

**Output:-**

****

****

**A screenshot of a computer

AI-generated content may be incorrect.**

**Practical No. 22**

**Aim:-** Program to design a Registration Form using TextBox, RadioButton, DropDownList and Validation controls. On Submit, display a welcome message with the users name and date of birth.

**Program:-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Project1

{

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

{

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

{

}

protected void btn1\_Click(object sender, EventArgs e)

{

string fn, ln, gen, dt, mn, yr, dob, strm;

fn = txtfn.Text;

ln = txtln.Text;

dt = txtdt.Text;

mn = txtmn.Text;

yr = txtyr.Text;

dob = dt + "-" + mn + "-" + yr;

if (rdbm.Checked == true)

{

gen = "Male";

}

else

{

gen = "Female";

}

strm = drpstrm.SelectedItem.Text;

Label1.Text = "WELCOME " + fn + ln;

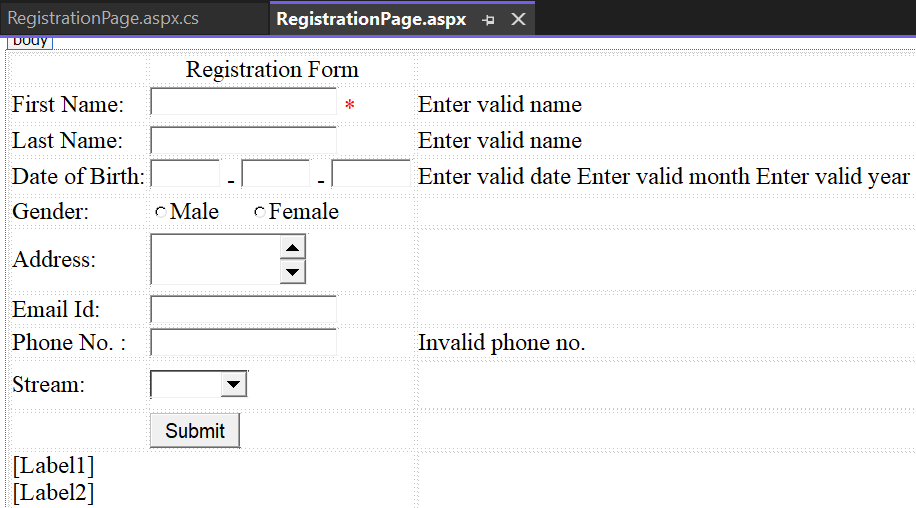
Label2.Text = "Date of Birth: " + dob;

}

}

}

**Output:-**

****

**A screenshot of a computer

AI-generated content may be incorrect.**

**Practical No. 23**

**Aim:-** Program to perform mathematical operations Factorial, Money Conversion, Cube, and Fibonacci using TextBox, Button, and Label controls**.**

**Program:-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practicals

{

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

{

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

{

}

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

{

int a = Convert.ToInt32(TextBox1.Text);

int fact = 1;

for (int i = 1; i <= a; i++)

{

fact = fact \* i;

}

Label1.Text = "Factorial of No:" + fact.ToString();

}

protected void Button2\_Click(object sender, EventArgs e)

{

int m = Convert.ToInt32(TextBox2.Text);

int r = 83;

int mc = m \* r;

Label2.Text = "Conversion of Rupees in dollars:" + mc.ToString();

}

protected void Button3\_Click(object sender, EventArgs e)

{

int c = Convert.ToInt32(TextBox3.Text);

int cube = c \* c \* c;

Label3.Text = "Cube of No:" + cube.ToString();

}

protected void Button4\_Click(object sender, EventArgs e)

{

int f = Convert.ToInt32(TextBox4.Text);

int first = 0;

int sec = 1, next;

Label4.Text = "Fibonacci series :" + " ";

for (int i = 1; i <= f; i++)

{

next = first + sec;

first = sec;

sec = next;

Label4.Text += first.ToString() + " ";

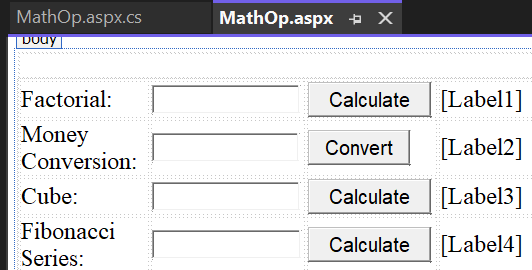
}

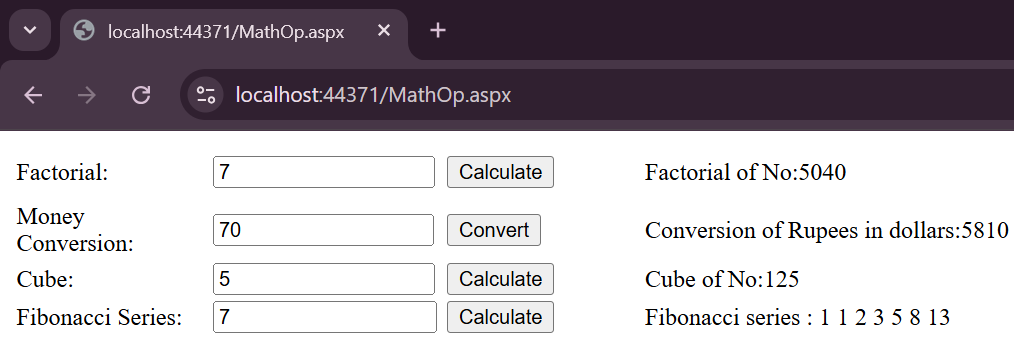
}

}

}

**Output:-**

****

****

**Practical No. 24**

**Aim:-** Program to demonstrate the Calendar control with events. Display selected date, mark holidays (Independence Day), and calculate days left for Ganesh Chaturthi and Internal Exam.

**Program:-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Practicals

{

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

{

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

{

}

protected void Calendar1\_SelectionChanged(object sender, EventArgs e)

{

Label1.Text = Calendar1.SelectedDate.ToShortDateString();

}

protected void Calendar1\_DayRender(object sender, DayRenderEventArgs e)

{

Label l1 = new Label();

l1.Text = "<br/> Indenpendece day";

if (e.Day.Date.Day == 15 & e.Day.Date.Month == 8)

{

l1.BackColor = System.Drawing.Color.Orange;

l1.ForeColor = System.Drawing.Color.Green;

e.Cell.Controls.Add(l1);

}

}

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

{

DateTime today = DateTime.Today;

DateTime ganeshChaturthi = new DateTime(2025, 8, 27);

TimeSpan timeRemaining = ganeshChaturthi - today;

int daysLeft = timeRemaining.Days;

Label2.Text = daysLeft.ToString();

}

protected void Button2\_Click(object sender, EventArgs e)

{

DateTime today = DateTime.Today;

DateTime Exam = new DateTime(2025, 8, 4);

TimeSpan timeRemaining = Exam - today;

int daysleft = timeRemaining.Days;

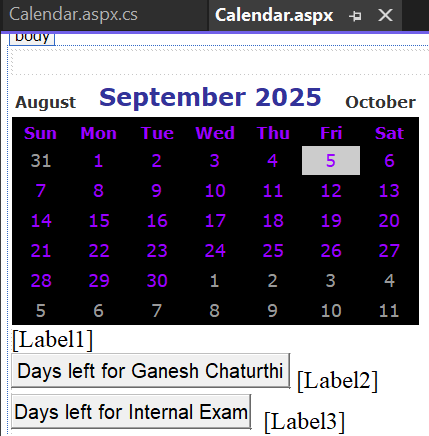
Label3.Text = daysleft.ToString();

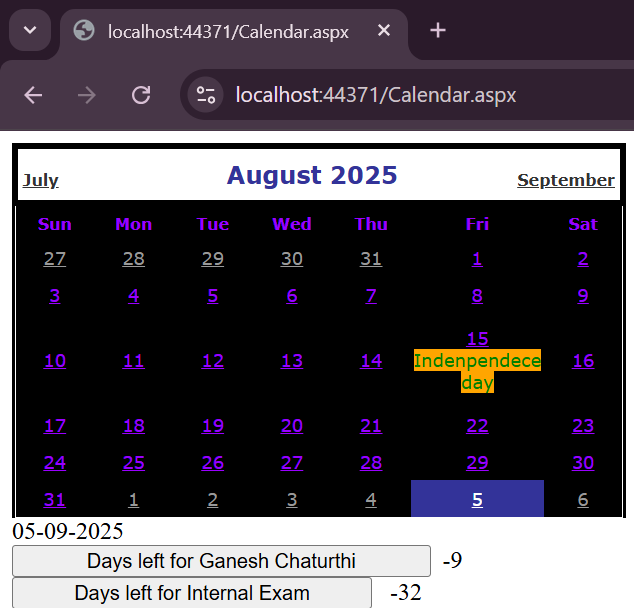
}

}

}

**Output:-**

****

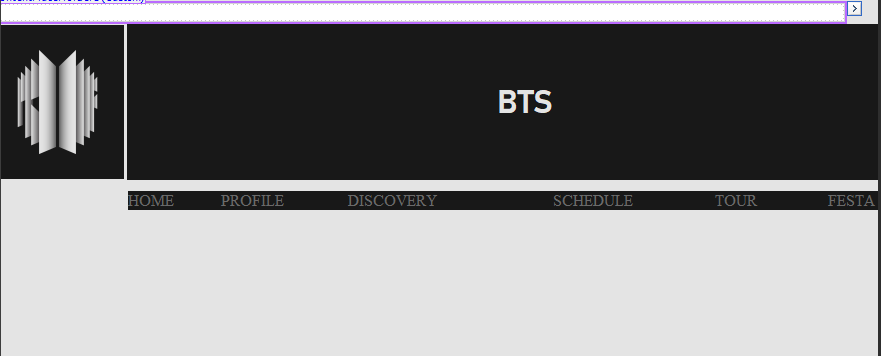
****

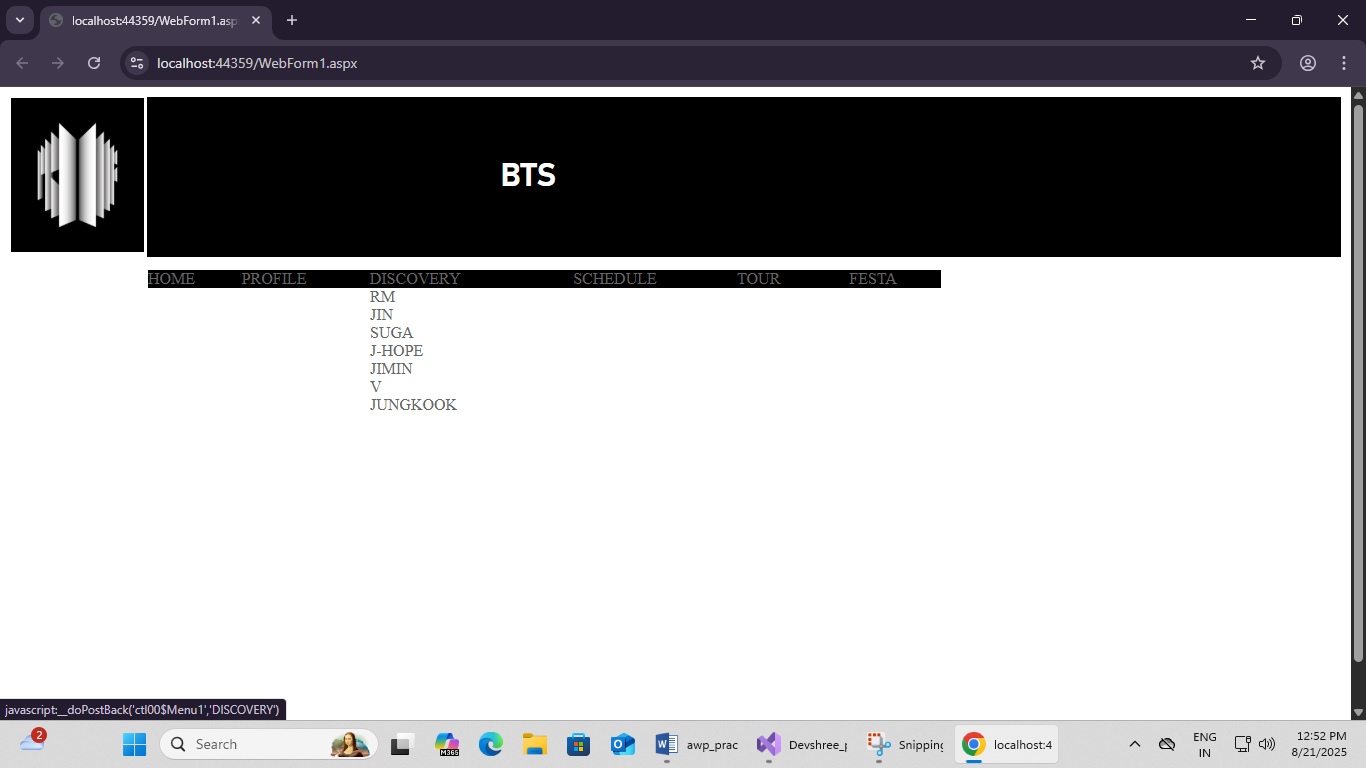
**Practical No. 25**

**Aim:-** Write a Program to Create an ASP.NET Master Page.

**Program:-**

**Output:-**





**Practical No. 26**

**Aim:-** Create an ASP.NET application with a student form (Roll No, Name, Department) and implement Insert, Show, Update, Delete (CRUD)operations using SQL Server database.

**Program:-**

using System;

using System.Collections.Generic;

using System.Data.SqlClient;

using System.Linq;

using System.Reflection.Emit;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Database\_practs

{

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=(LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs\\ App\_Data\\student.mdf\";Integrated Security=True");

con.Open();

SqlCommand cmd = new SqlCommand("Insert into student values (@rn,@nm,@dept)", con);

cmd.Parameters.AddWithValue("@rn", TextBox1.Text);

cmd.Parameters.AddWithValue("@nm", TextBox2.Text);

cmd.Parameters.AddWithValue("@dept",TextBox3.Text);

cmd.ExecuteNonQuery();

Label1.Text = "Record inserted sucessfully!";

con.Close();

}

protected void Button2\_Click(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection("Data Source=(LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs \\App\_Data\\student.mdf\";Integrated Security=True");

con.Open();

SqlCommand cmd = new SqlCommand("Update student set nm=@nm where rn=@rn",con);

cmd.Parameters.AddWithValue("rn", TextBox1.Text);

cmd.Parameters.AddWithValue("@nm", TextBox2.Text);

cmd.ExecuteNonQuery();

Label1.Text = "Record Updated Successfully";

con.Close();

}

protected void Button3\_Click(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection("Data Source=(LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs \\App\_Data\\student.mdf\";Integrated Security=True ");

con.Open();

SqlCommand cmd = new SqlCommand("Delete from student where rn=@rn", con);

cmd.Parameters.AddWithValue("@rn", TextBox1.Text);

cmd.ExecuteNonQuery();

Label1.Text = "Record Deleted Successfully";

con.Close();

}

protected void Button4\_Click(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection("Data Source=(LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs \\App\_Data\\student.mdf\";Integrated Security=True ");

con.Open();

SqlCommand cmd = new SqlCommand("Select \* from student where rn = @rn", con);

SqlDataReader dr;

cmd.Parameters.AddWithValue("@rn", TextBox1.Text);

dr = cmd.ExecuteReader();

dr.Read();

TextBox2.Text = dr[1].ToString();

TextBox3.Text = dr[2].ToString();

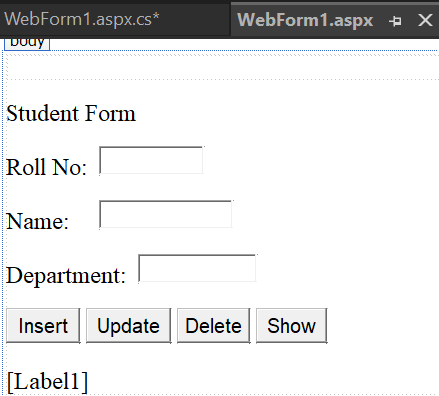
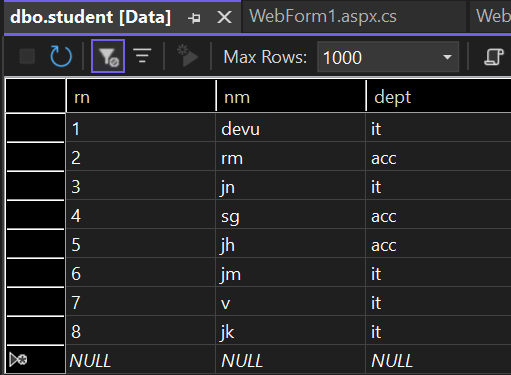
con.Close();

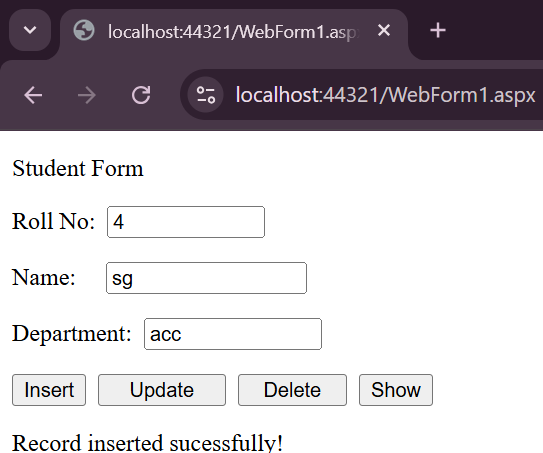
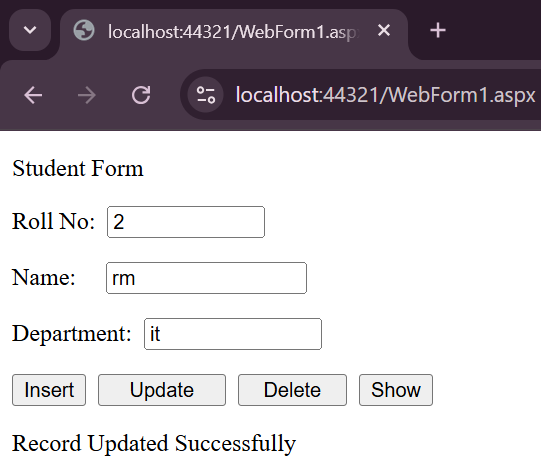
}

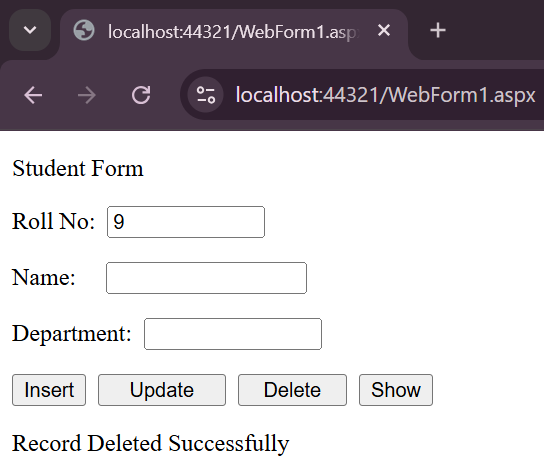
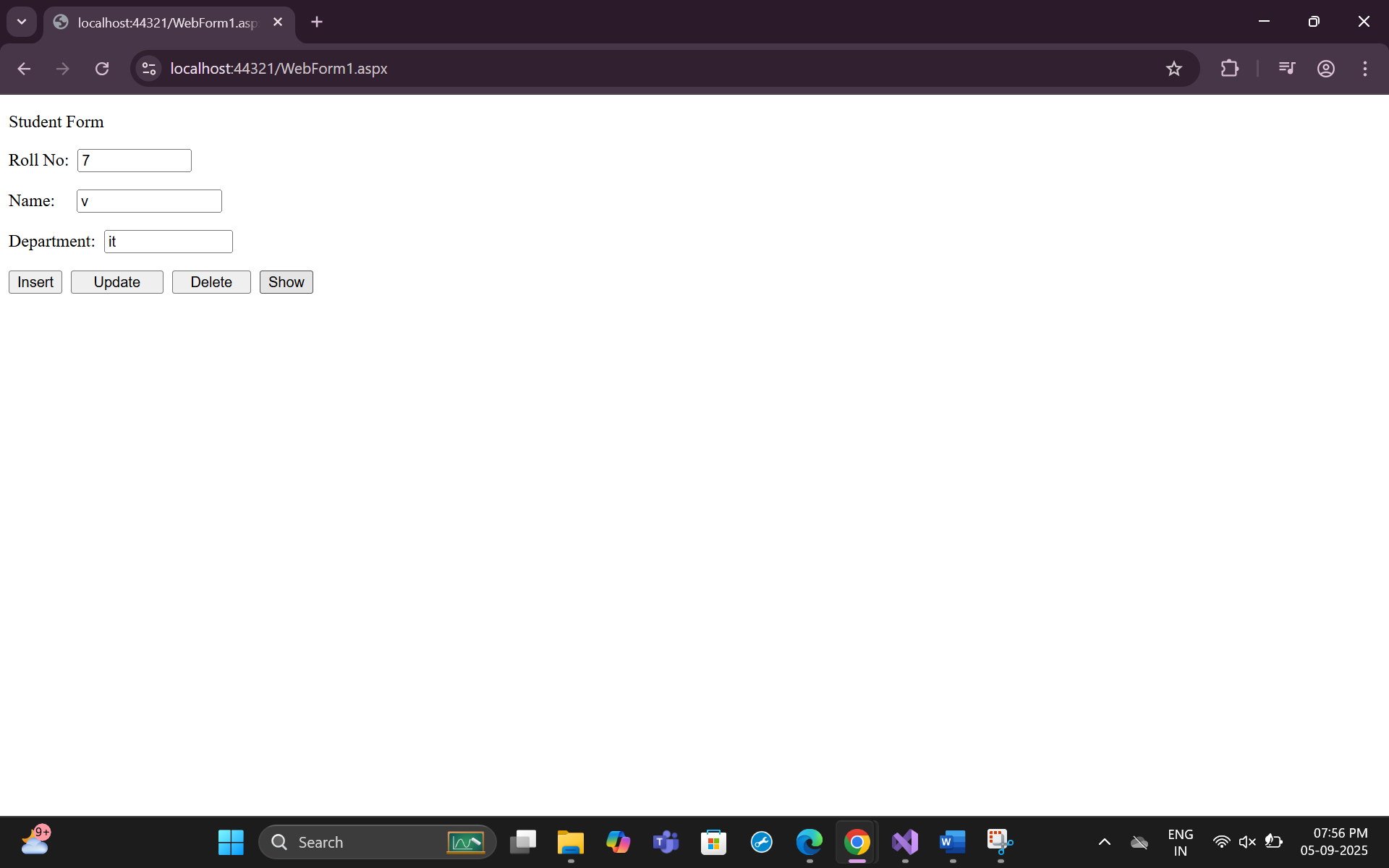
}

}

**Output:-**

** **

** **

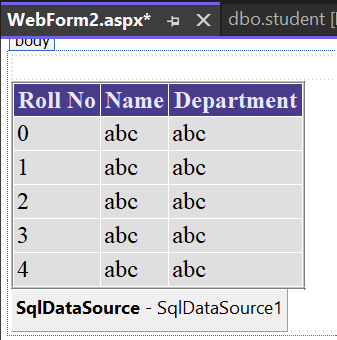
**** 

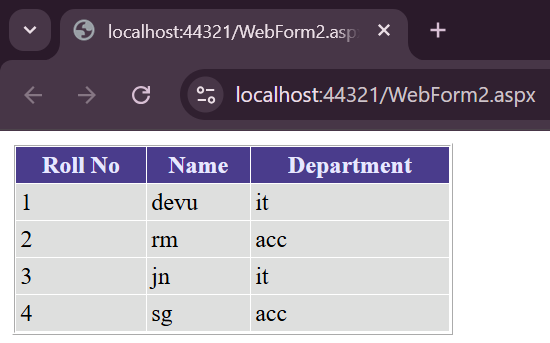
**Practical No. 27**

**Aim:-** Program to demonstrate data binding using GridView and SqlDataSource to display student details (Roll No, Name, Department) from the database

**Program:-**

**Output:-**

****

****

**Practical No. 28**

**Aim:-** Program to bind a GridView using disconnected architecture (DataSet & DataAdapter) and display student records from the database.

**Program:-**

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 Database\_practs

{

public partial class WebForm3 : 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= LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs\\ App\_Data\\student.mdf\";Integrated Security=True");

SqlCommand cmd = new SqlCommand("Select \* from student", con);

SqlDataAdapter da = new SqlDataAdapter(cmd);

DataSet ds = new DataSet();

da.Fill(ds);

GridView1.DataSource = ds;

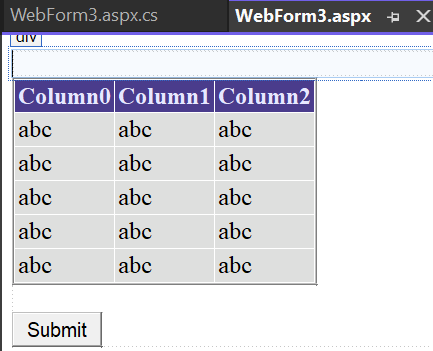
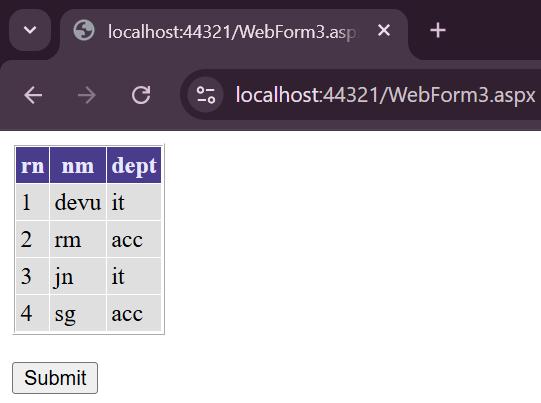
GridView1.DataBind();

}

}

}

**Output:-**

** **

**Practical No. 29**

**Aim:-** Write a simple web page containing the student details (Roll Num, Name, Class, Phone, Email). Write a program to store the data in the database and retrieve it using Data reader in tabular format.

**Program:-**

using System;

using System.Collections.Generic;

using System.Data;

using System.Data.SqlClient;

using System.Drawing;

using System.Linq;

using System.Reflection.Emit;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Database\_practs

{

public partial class WebForm4 : 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= LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs\\ App\_Data\\student.mdf\";Integrated Security=True ");

SqlCommand cmd = new SqlCommand("Insert into std values(@rn,@nm,@cl,@ph,@em)", con);

con.Open();

cmd.Parameters.AddWithValue("@rn", TextBox1.Text);

cmd.Parameters.AddWithValue("@nm", TextBox2.Text);

cmd.Parameters.AddWithValue("@cl", TextBox3.Text);

cmd.Parameters.AddWithValue("@ph", TextBox4.Text);

cmd.Parameters.AddWithValue("@em", TextBox5.Text);

cmd.ExecuteNonQuery();

Label1.Text = "Record inserted sucessfully!!";

con.Close();

}

protected void Button2\_Click(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection("Data Source= LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs\\ App\_Data\\student.mdf\";Integrated Security=True ");

SqlCommand cmd = new SqlCommand("Select \* from std where rn=@rn", con);

SqlDataReader dr;

cmd.Parameters.AddWithValue("@rn", TextBox1.Text);

dr = cmd.ExecuteReader();

dr.Read();

TextBox2.Text = dr[1].ToString();

TextBox3.Text = dr[2].ToString();

TextBox4.Text = dr[3].ToString();

TextBox5.Text = dr[4].ToString();

con.Close();

}

protected void Button3\_Click(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection("Data Source= LocalDB)\\MSSQLLocal DB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs\\ App\_Data\\student.mdf\";Integrated Security=True ");

con.Open();

SqlCommand cmd = new SqlCommand("Select \* from std", con);

SqlDataAdapter da = new SqlDataAdapter(cmd);

DataSet ds = new DataSet();

da.Fill(ds);

GridView1.DataSource = ds.Tables[0];

GridView1.DataBind();

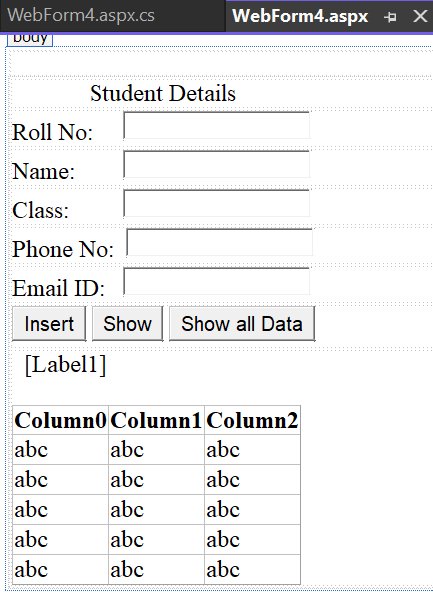
con.Close();

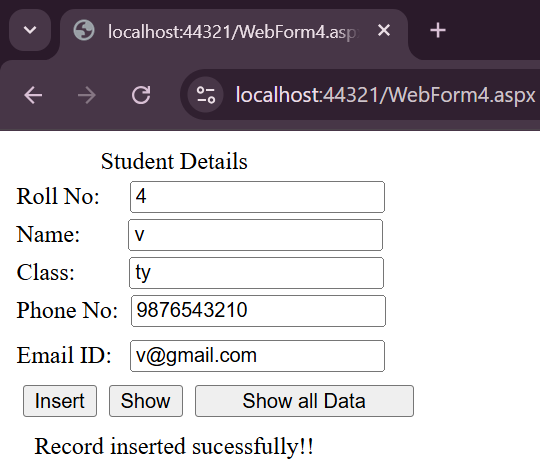
}

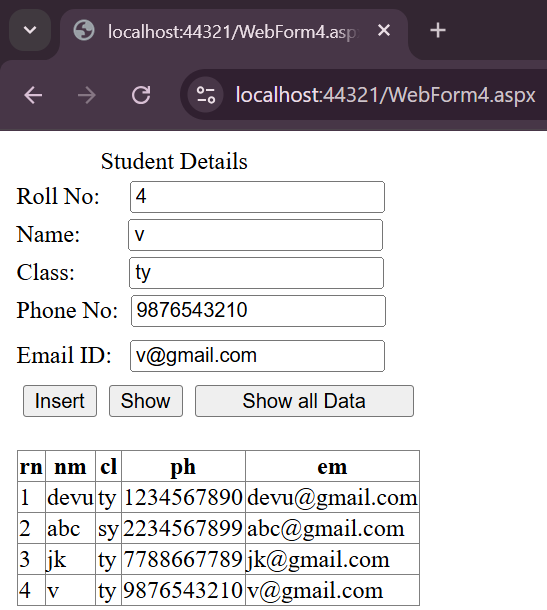
}

}

**Output:-**

****

****

****

**Practical No. 30**

**Aim:-** Create a web page containing the student details (Roll Num, Name, Class, Phone, Email) and show result using Databinding and dropdownlist control**.**

**Program:-**

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 Database\_practs

{

public partial class WebForm5 : System.Web.UI.Page

{

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

{

if (Page.IsPostBack == false)

{

SqlConnection con = new SqlConnection("Data Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs\\App\_Data\\student.mdf\";Integrated Security=True");

SqlCommand cmd = new SqlCommand("select rn from std", con);

con.Open();

SqlDataReader dr = cmd.ExecuteReader();

DropDownList1.DataSource = dr;

DropDownList1.DataTextField = "rn";

DropDownList1.DataValueField = "rn";

DropDownList1.DataBind();

con.Close();

}

}

protected void DropDownList1\_SelectedIndexChanged(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection("Data Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=\"C:\\Users\\Vinoti Parab\\source\\repos\\Database\_practs\\App\_Data\\student.mdf\";Integrated Security=True");

SqlCommand cmd = new SqlCommand("Select \* from std where rn=@rn", con);

cmd.Parameters.AddWithValue("@rn", DropDownList1.SelectedItem.Text);

con.Open();

SqlDataReader dr = cmd.ExecuteReader();

dr.Read();

TextBox1.Text = dr[1].ToString();

TextBox2.Text = dr[2].ToString();

TextBox3.Text = dr[3].ToString();

TextBox4.Text = dr[4].ToString();

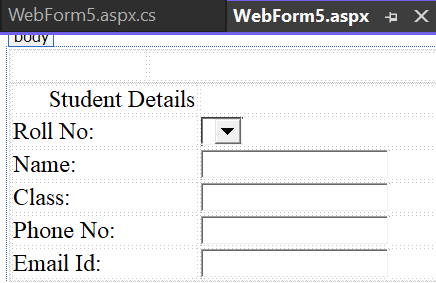
con.Close();

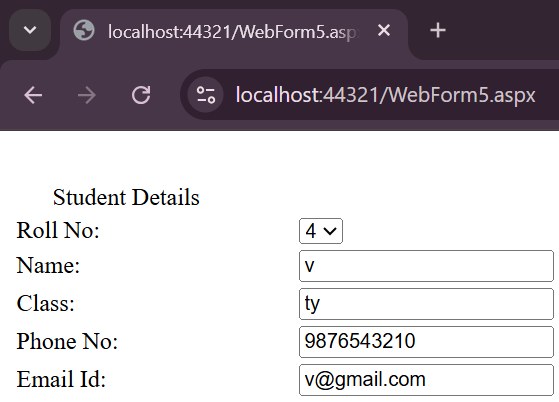
}

}

}

**Output:-**

****

****

**Practical No. 31**

**Aim:-** Write a Program for XmlTextReader, XmlTextWriter.

Program:-

using System;

using System.Collections.Generic;

using System.Data;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Xml;

namespace XMLDemo

{

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

{

string filePath ="C:\\Users\\students\\source\\repos\\XMLDemo\\Product.xml";

using (XmlTextWriter writer = new XmlTextWriter(filePath, System.Text.Encoding.UTF8))

{

writer.Formatting = Formatting.Indented;

writer.Indentation = 4;

writer.WriteStartDocument();

writer.WriteStartElement("Products");

writer.WriteStartElement("Product");

writer.WriteAttributeString("ProductID", TextBox1.Text);

writer.WriteElementString("ProductName", TextBox2.Text);

writer.WriteElementString("ProductQuantity", TextBox3.Text);

writer.WriteElementString("ProductPrice", TextBox4.Text);

writer.WriteEndElement();

writer.WriteEndDocument();

}

Response.Redirect("Product.xml");

}

catch (Exception ex)

{

}

}

protected void Button2\_Click(object sender, EventArgs e)

{

XmlTextReader xr = new XmlTextReader("C:\\Users\\students\\source\\repos\\XMLDemo\\Product.xml");

DataSet ds=new DataSet();

ds.ReadXml(xr);

xr.Close();

GridView1.DataSource = ds;

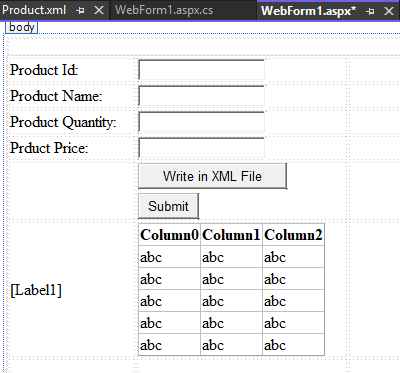
GridView1.DataBind();

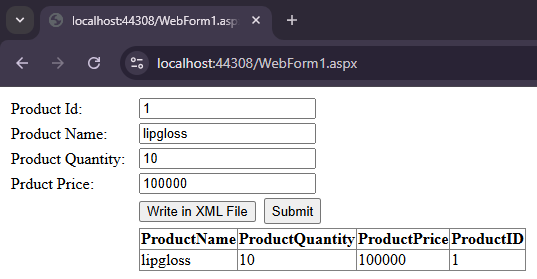
}

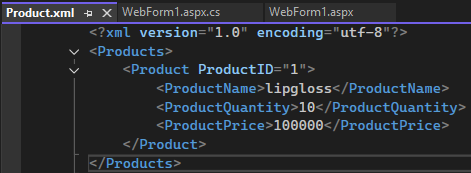
}

}

**Output:-**







**Practical No. 32**

**Aim:-** Write a Program for Cookies, QueryString, ViewState, Session, Application

**Program:-**

**A) Cookies:**

WebForm1

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace statemgmt

{

public partial class WebForm1 : System.Web.UI.Page

{

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

{

}

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

{

HttpCookie userInfo = new HttpCookie("userInfo");

userInfo["Name"]= TextBox1.Text;

userInfo["Age"] = TextBox2.Text;

Response.Cookies.Add(userInfo);

}

}

}

WebForm2

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace statemgmt

{

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

{

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

{

HttpCookie reqCookies = Request.Cookies["userInfo"];

if (reqCookies != null)

{

String nm = reqCookies["Name"].ToString();

String ag = reqCookies["Age"].ToString();

Label1.Text = nm;

Label2.Text = ag;

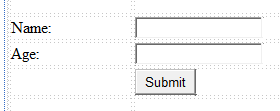
}

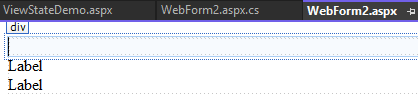
}

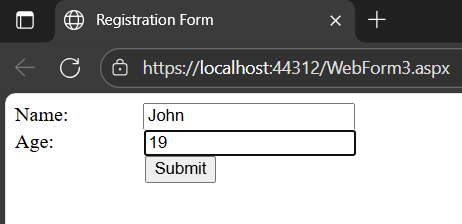
}

}

**Output:-**







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**B) QueryString:**

Webform1

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace statemgmt

{

public partial class WebForm1 : System.Web.UI.Page

{

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

{

}

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

{

String nm=TextBox1.Text;

String ag=TextBox2.Text;

Response.Redirect("WebForm2.aspx?nm="+nm+"&ag="+ag);

}

}

}

WebForm2

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace statemgmt

{

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

{

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

{

String nm = Request.QueryString["nm"];

String ag = Request.QueryString["ag"];

Label1.Text = "Welcome " + nm ;

int a= Convert.ToInt32(ag);

if (a >= 18)

{

Label2.Text = "You are eligible to apply for a Job";

}

else

{

Label2.Text = "Sorry, you are not eligible!";

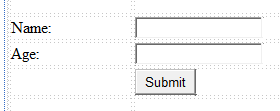
}

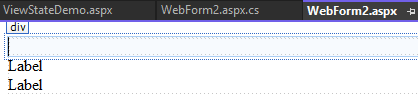
}

}

}

**Output:-**





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A screenshot of a computer

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**C) ViewState:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace statemgmt

{

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

{

int a, b;

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

{

if (Page.IsPostBack == false)

{

a = 0;

b = 0;

}

}

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

{

a = a + 1;

Label1.Text = a.ToString();

}

protected void Button2\_Click(object sender, EventArgs e)

{

b = Convert.ToInt32(ViewState["b"]);

b = b + 1;

Label2.Text = b.ToString();

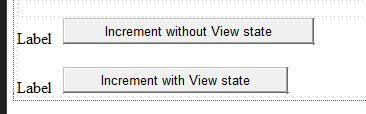
ViewState["b"] = b;

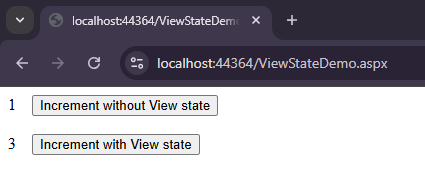
}

}

}

**Output:-**





**D) Session:**

WebForm3

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace statemgmt

{

public partial class WebForm3 : System.Web.UI.Page

{

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

{

}

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

{

Session["nm"]= TextBox1.Text;

Session["cl"]= TextBox2.Text;

Response.Redirect("WebForm4.aspx");

}

}

}

WebForm4

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace statemgmt

{

public partial class WebForm4 : System.Web.UI.Page

{

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

{

}

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

{

if (Session["nm"] != null && Session["cl"] != null)

{

Label1.Text= Session["nm"].ToString();

Label2.Text = Session["cl"].ToString();

}

}

}

}

WebConfig

<system.web>

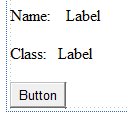
<compilation debug="true" targetFramework="4.7.2" />

<httpRuntime targetFramework="4.7.2" />

<sessionState mode="InProc" timeout="5000" cookieless="UseUri"></sessionState>

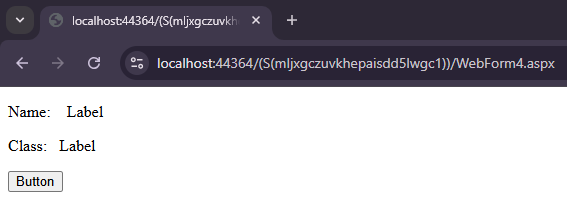
</system.web>

**Output:-**

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A screenshot of a computer

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**E) Application:**

Global.asax.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Security;

using System.Web.SessionState;

namespace statemgmt

{

public class Global : System.Web.HttpApplication

{

protected void Application\_Start(object sender, EventArgs e)

{

Application["nov"] = 0; //nov=no. of visitors

}

protected void Session\_Start(object sender, EventArgs e)

{

int a = Convert.ToInt32(Application["nov"]); //explicit conversion

a = a + 1;

Application["nov"] = a;

}

protected void Session\_End(object sender, EventArgs e)

{

}

protected void Application\_End(object sender, EventArgs e)

{

}

}

}

WebForm1.aspx

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

{

if (Page.IsPostBack == false)

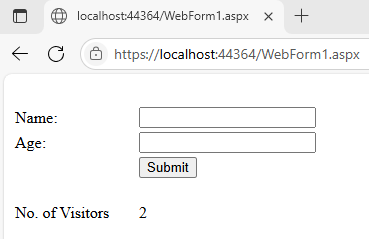
{

Label1.Text = Application["nov"].ToString();

}

}

**Output:-**

**Practical No. 33**

**Aim:-** Write a Program for UserControl.

**Program:-**

WebConfig

<system.web>

<compilation debug="true" targetFramework="4.7.2" />

<httpRuntime targetFramework="4.7.2" />

<pages>

<controls>

<add tagPrefix="ucl" tagName="ContactUC" src="~/UserControl1.ascx"/>

</controls>

</pages>

</system.web>

WebForm1.aspx

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="Project1.WebForm1" %>

<!DOCTYPE html>

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

<head runat="server">

</head>

<body>

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

<div>

</div>

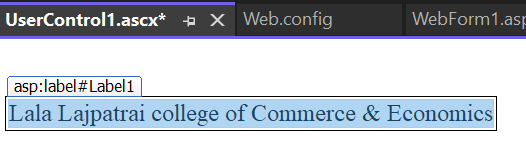
<ucl:Contactuc runat="server" ID="Label1" />

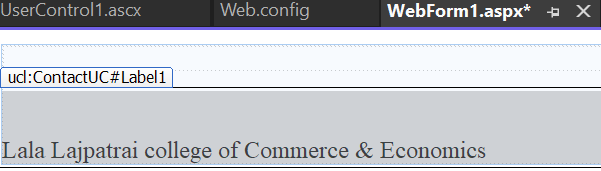
</form>

</body>

</html>

**Output:-**





**Practical No. 34**

**Aim:-** Write a Program for Ajax (Timer and Button).

**Program:-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Demo

{

public partial class WebForm1 : System.Web.UI.Page

{

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

{

}

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

{

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

}

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

{

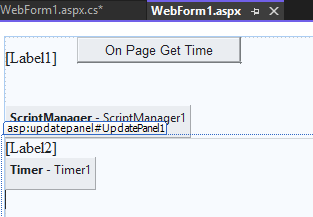
Label2.Text = DateTime.Now.ToLongTimeString();

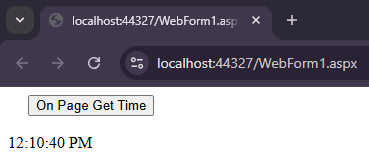
}

}

}

**Output:-**



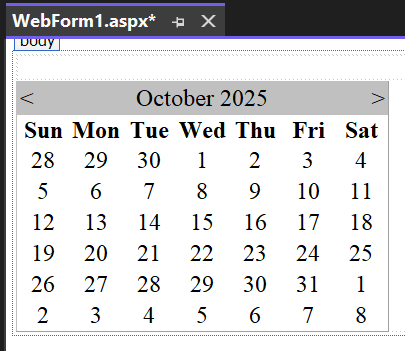


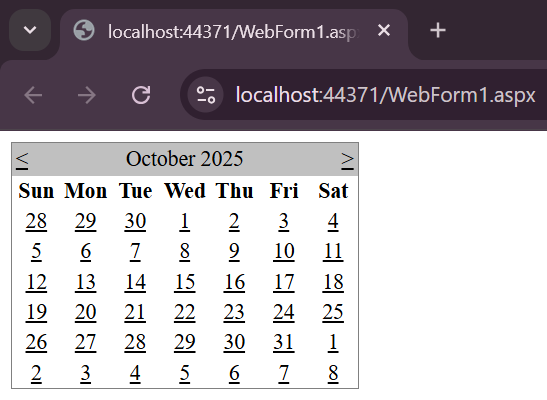
**Practical No. 35**

**Aim:-** Calendar Control

**Program:-**

**Output:-**

****

****

**Practical No. 36**

Aim:- Write a Program for AdRotator.

**Program:-**

XML.xml

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

<Advertisements>

<Ad>

<ImageUrl>~/img/ad1.jpg</ImageUrl>

<NavigateUrl> https://www.dior.com/en\_int/beauty/</NavigateUrl>

<AlternateText>Dior Lipstick</AlternateText>

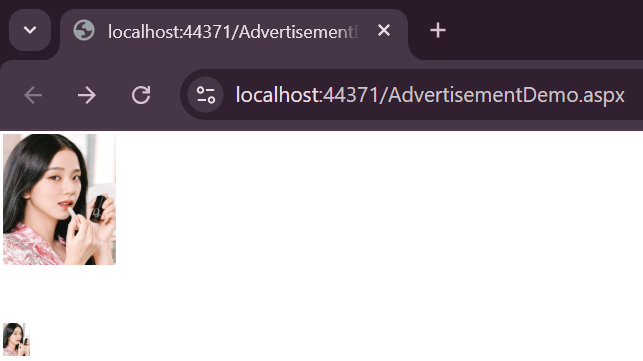
<Impression>5</Impression>

<Keyword>Lipstick</Keyword>

</Ad>

</Advertisements>

**Output:-**

****

