LAB MANUAL

.NET TECHNOLOGY

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VVPEC CE SEM-6

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**Practical-1**

**Aim:**

# Introduction to c#:

Variables: Initialization Scope Constant

Predefined Data Types Value Types Reference Types

Flow Control

Conditional Statements(if, switch) Loop(for, while, dowhile, foreach) Jump(goto, break, continue, return)

Eumerations Passing Arguments

using System;

using System.Threading; namespace P1

{

class P1

{

static int j = 90; public enum TimeOfDay

{

Morning = 0,

Afternoon = 1,

Evening = 2

}

public static void Main(string[] args)

{

Console.WriteLine("First Program");

int i; i = 25;

Console.WriteLine("Scope of Variables.\n1:"); int j;

for (int j = 0; j < 2; j++) //removing comment from for loop will raise error

{

//int j;

//uncomment above line to error "A local variable named 'j' cannot be declared in this

//scope because it would give a different meaning to 'j', which is already

//used in a 'parent or current' scope to denote something else" Console.Write("{0} {1}\n", j, P1.j);

}

Console.WriteLine("2:"); for (int k = 0; k < 3; k++)

{

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

}

Console.Write("\n"); Console.Write(k);

for (int k = 3; k > 0; k--)

{

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

}

Console.WriteLine("Constants");

const int valConst = 100; // This value cannot be changed. Console.WriteLine("{0} is constant value", valConst); valConst = 45;

const int valConst2 = valConst + 9 /\* + j\*/; Console.WriteLine("Another Constant: {0}", valConst2);

Console.WriteLine("\nPredefined Data Types\n\nValue Types and Reference Types");

//Value Types

int vali = 2, valj = vali;

Console.WriteLine("vali is: {0} and valj is: {1}", vali, valj); valj = 90;

Console.WriteLine("vali is: {0} and valj is: {1}", vali, valj);

//Referece Types Vector x, y;

x = new Vector(); x.value = 3;

y = x;

Console.WriteLine("x is: {0} and y is:{1}", x.value, y.value); y.value = 234;

Console.WriteLine("x is: {0} and y is:{1}", x.value, y.value);

y = null;

Console.Write("Value for y is: " + y.value); Console.WriteLine("\nInteger Types");

sbyte sb = 33; short s = 33; int \_i = 33; long l = 33L;

//Unsigned Integers byte b = 33;

ushort us = 33; uint ui = 33U; ulong ul = 33UL;

Console.WriteLine("{0} {1} {2} {3} {4} {5} {6} {7}", sb, s, \_i, l, b, us, ui, ul);

//Floating point types float f = 11.22334455F;

double d = 11.2233445566778899;

Console.Write("\nFloat and Double:\n"); Console.WriteLine("{0} and \n{1}", f, d);

//Decimal Type

decimal dec = 111.222333444555666777888999M;

Console.WriteLine("Decimal:\n{0}", dec);

//Boolean Console.WriteLine("\nBoolean:"); bool valBoolean = true;

Console.WriteLine("Status: " + valBoolean);

//Character

Console.WriteLine("\nCharacter:\nSingle Quote \'"); Console.WriteLine("Double Quote \""); Console.WriteLine("Back Slash \\");

char charA = 'A'; Console.WriteLine(charA); charA = '\0';

Console.WriteLine("Now null: " + charA); Console.WriteLine("\a"); //Notofication Sound Thread.Sleep(1000);

Console.Beep(); //another notification sound

object o1 = "Hi, I am an Object"; object o2 = 34;

string strObj = o1 as string; Console.WriteLine(strObj);

Console.WriteLine(o1.GetHashCode() + " " + o1.GetType()); Console.WriteLine(o2.GetHashCode() + " " + o2.GetType()); Console.WriteLine(o1.Equals(o2));

//string string s1, s2;

s1 = "String 1"; s2 = s1;

Console.WriteLine("S1 is: {0} and s2 is {1}", s1, s2); s2 = "New String 1";

Console.WriteLine("S1 is: {0} and s2 is {1}", s1, s2); s1 = "c:\\NewFolder\\Hello\\P1.cs"; Console.WriteLine(s1);

s1 = @"c:\NewFolder\Hello\P1.cs"; Console.WriteLine(s1);

s1 = @"We can also write like this"; Console.WriteLine(s1);

//Flow Control

//The if Statement bool isZero;

Console.WriteLine("\nFlow Control: (if)\ni is " + i); if (i == 0)

{

}

else

{

}

isZero = true; Console.WriteLine("i is Zero");

isZero = false;

Console.WriteLine("i is Non - zero");

//else if

Console.WriteLine("\nType in a string:"); string input;

input = Console.ReadLine(); if (input == "")

{

Console.WriteLine("You typed in an empty string");

}

else if (input.Length < 5)

{

Console.WriteLine("The string had less than 5 characters");

}

else if (input.Length < 10)

{

Console.WriteLine("The string had at least 5 but less than 10 characters");

}

Console.WriteLine("The string was " + input);

//Switch

int integerA = 2; Console.WriteLine("\nSwitch:");

switch (integerA)

{

case 1:

Console.WriteLine("integerA = 1"); break;

case 2:

Console.WriteLine("integerA = 2");

//goto case 3; break;

case 3:

Console.WriteLine("integerA = 3"); break;

default:

Console.WriteLine("integerA is not 1, 2, or 3"); break;

}

//Loops - to be explored

//jump statements goto, break, continue, return - to be explored

//Enumerations

//An enumeration is a user-defined integer type.

//Benefits:

//1.As mentioned, enumerations make your code easier to maintain

## //2.Enumerations make your code clearer by allowing you to refer to integer values by descriptive names

//3.Enumerations make your code easier to type, too. When you go to assign a value to an instance of an enumerated type,

//the Visual Studio .NET IDE will, through IntelliSense, pop up a list box of acceptable values in order to save

//you some keystrokes and to remind you of what the possible options are.

WriteGreeting(TimeOfDay.Morning); Console.WriteLine("Argument is: {0}",args[1]);

}

static void WriteGreeting(TimeOfDay timeOfDay)

{

switch (timeOfDay)

{

case TimeOfDay.Morning: Console.WriteLine("Good morning!"); break;

case TimeOfDay.Afternoon: Console.WriteLine("Good afternoon!"); break;

case TimeOfDay.Evening: Console.WriteLine("Good evening!"); break;

default:

Console.WriteLine("Hello!"); break;

}

}

}

public class Vector

{

public int value;

}

}

**Output:**

E:\Sem-6\VS>p1.exe First Program Scope of Variables. 1:

0 90

1 90

2:

0 1 2

3 2 1 Constants

100 is constant value Another Constant: 109

Predefined Data Types

Value Types and Reference Types vali is: 2 and valj is: 2

vali is: 2 and valj is: 90 x is: 3 and y is:3

x is: 234 and y is:234

Integer Types

33 33 33 33 33 33 33 33

Float and Double:

11.22334 and

11.2233445566779

Decimal: 111.222333444555666777888999

Boolean:

Status: True

Character: Single Quote ' Double Quote " Back Slash \ A

Now null:

Hi, I am an Object

-1735802816 System.String

34 System.Int32 False

S1 is: String 1 and s2 is String 1

S1 is: String 1 and s2 is New String 1

c:\NewFolder\Hello\P1.cs c:\NewFolder\Hello\P1.cs We can also write

like this

Flow Control: (if) i is 25

i is Non - zero

Type in a string:

anjali

The string had at least 5 but less than 10 characters The string was anjali

Switch: integerA = 2 Good morning!

**Practical-2**

**Aim:**

# GTU Programs

Program 1. Write console based program in code behind language VB or C# to print following pattern.

@@@@@ @@@@ @@@ @@

@

using System;

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

using System.Text;

namespace p2

{

class Pattern1

{

static void Main(string[] args)

{

for (int i = 5; i > 0; i--) {

for (int j = i; j > 0; j--) {

Console.Write('@');

}

Console.WriteLine();

}

Console.ReadKey();

}

}

}

**Output:**

## E:\Sem-6\VS\p2\p2>Pattern1.exe

@@@@@ @@@@ @@@ @@

@

Program 2. Write console based program in code behind language VB or C# to print following pattern.

1

12

123

1234

using System;

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

using System.Text;

namespace p2

{

class Pattern2

{

static void Main(String[] ar){ for(int i=1;i<5;i++){

for(int j=1;j<=i;j++){ Console.Write(j);

}

Console.WriteLine();

}

Console.ReadKey();

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Pattern2.exe 1

12

123

1234

Program 3. Write C# code to prompt a user to input his/her name and country name and then the output will be shown as an example below:

Hello Ram from country India

using System;

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

using System.Text;

namespace p2

{

class Read

{

static void Main(String[] ar) { Console.WriteLine("Enter your name:"); string name = Console.ReadLine(); Console.WriteLine("Enter your City:"); string city = Console.ReadLine();

Console.WriteLine("Hello {0} from city {1}",name,city);

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Read.exe Enter your name:

hi

Enter your City: rajkot

Hello hi from city Rajkot

Program 4. What is inheritance? Create C# console application to define Car class and derive Maruti and Mahindra from it to demonstrate inheritance.

using System;

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

using System.Text;

namespace p2

{

public class Car

{

public virtual void display()

{

Console.WriteLine("This is Car class...");

}

}

public class Mahindra : Car

{

public override void display()

{

Console.WriteLine("This is Mahindra class...");

}

}

public class Maruti : Car

{

public override void display()

{

Console.WriteLine("This is maruti class");

}

}

class Inheritance

{

static void Main(String[] ar){ Maruti m = new Maruti(); Mahindra mm = new Mahindra(); m.display();

mm.display();

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Inheritance.exe This is maruti class

This is Mahindra class...

**Practical-3**

**Aim:**

# Overloading

Program 1: Write a c# program to add two integers, two vectors and two metric using method overloading.

using System;

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

using System.Text;

namespace p2

{

public class P3\_1

{

public int add(int a, int b) { return a + b;

}

public static Vector add(Vector v1,Vector v2) { Vector v= new Vector();

v.a = v1.a + v2.a;

v.b = v1.b + v2.b; return v;

}

public static int[,] add(int[,] a, int[,] b) { int[,] s = new int[2, 2];

for (int i = 0; i < 2; i++) { for (int j = 0; j < 2; j++) {

s[i, j] = a[i, j] + b[i, j];

}

}

return s;

}

public static void Main(String[] ar) { int n,n1, n2;

Vector v = new Vector();

Console.WriteLine("Enter Number 1:");

n1 = Convert.ToInt32(Console.ReadLine()); Console.WriteLine("Enter Number 2:");

n2 = Convert.ToInt32(Console.ReadLine()); n = n1 + n2;

Console.WriteLine("Addition of Number:{0}", n);

Console.WriteLine("Enter Vector 1:");

n1 = Convert.ToInt32(Console.ReadLine()); n2 = Convert.ToInt32(Console.ReadLine()); Vector v1 = new Vector(n1,n2);

Console.WriteLine("Enter Vector 2:");

n1 =Convert.ToInt32(Console.ReadLine()); n2 = Convert.ToInt32(Console.ReadLine()); Vector v2 = new Vector(n1,n2);

v = add(v1, v2);

Console.WriteLine("Addition of vector: x={0}, y={1}",v.a,v.b); int[,] a = new int[,] { { 1, 2 }, { 3, 4 } };

int[,] b = new int[,] { { 5, 6 }, { 7, 8 } };

int[,] c = add(a, b); Console.WriteLine("Addition of two matrics:"); for (int z = 0; z < 2; z++) {

for (int m = 0; m < 2; m++) { Console.WriteLine("Addition: "+ c[z, m]);

}

}

Console.ReadKey();

}

}

public class Vector { public int a, b; public Vector() { }

public Vector(int a, int b)

{

this.a = a; this.b = b;

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>P3.1.exe Enter Number 1:

1

Enter Number 2:

2

Addition of Number:3

Enter Vector 1:

1

2

Enter Vector 2:

3

1

Addition of vector: x=4, y=3

Addition of two metrics: Addition: 6

Addition: 8

Addition: 10

Addition: 12

Program 2: Write a c# program that create student object. Overload constructor to create new instant with following details.

1. Name
2. Name , Enrollment
3. Name , Enrollment, Branch

using System;

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

using System.Text;

namespace p2

{

public class Student

{

string name, enrollment, branch; public Student(string name) {

this.name = name;

Console.WriteLine(“First Constructor initiated..”);

}

public Student(string name, string enrollment) { this.name = name;

this.enrollment = enrollment;

Console.WriteLine(“Second Constructor initiated..”);

}

public Student(string name, string enrollment, string branch) { this.name = name;

this.enrollment = enrollment; this.branch = branch;

Console.WriteLine(“Third Constructor initiated..”);

}

public static void Main(String[] ar) { Student s1 = new Student("Anjali");

Student s2 = new Student("Anjali","160470107004");

Student s3 = new Student("Anjali","160470107004","Computer");

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>P3.2.exe First Constructor initiated.. Second Constructor initiated.. Third Constructor initiated..

**Practical-4**

**Aim:**

# Reflection

Create a c# program to find Methods, Properties and Constructors from class of running program.(Use Class from previous practical)

using System;

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

using System.Text; using System.Reflection;

namespace p2

{

class Reflection

{

static void Main()

{

Type T = Type.GetType("p2.Customer"); MethodInfo[] methods = T.GetMethods(); foreach (MethodInfo method in methods)

{

Console.WriteLine(method.ReturnType + " " + method.Name);

}

PropertyInfo[] properties = T.GetProperties();

Console.WriteLine("\nProperties");

foreach (PropertyInfo property in properties)

{

Console.WriteLine(property.PropertyType + " " + property.Name);

}

Console.WriteLine("\nConstructors"); ConstructorInfo[] constructors = T.GetConstructors(); foreach (ConstructorInfo constructor in constructors)

{

Console.WriteLine(constructor.ToString());

}

}

}

class Customer

{

public int ID { get; set; } public string Name { get; set; }

public Customer(int ID, string Name)

{

this.ID = ID; this.Name = Name;

}

public Customer()

{

this.ID = -1;

this.Name = string.Empty;

}

public void printID()

{

Console.WriteLine("ID is: {0}", this.ID);

}

public void printName()

{

Console.WriteLine("Name is: {0}", this.Name);

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Reflection.exe System.Int32 get\_ID

System.Void set\_ID System.String get\_Name System.Void set\_Name System.Void printID System.Void printName System.String ToString System.Boolean Equals System.Int32 GetHashCode System.Type GetType

Properties System.Int32 ID System.String Name

Constructors

Void .ctor(Int32, System.String) Void .ctor()

**Practical-5**

**Aim:**

# File Handling

Program 1: Write a C# program to copy data from one file to another using StreamReader and StreamWriter class.

using System;

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

using System.Text; using System.IO;

namespace p2

{

class P4\_1

{

public static void Main(){ string f1 = @"f1.txt"; string f2 = @"f2.txt";

using (StreamReader reader = new StreamReader(f1)) using (StreamWriter writer = new StreamWriter(f2))

writer.Write(reader.ReadToEnd());

}

}

}

**Output:**

F1.txt: Hello World… F2.txt: Hello World…

Program 2: Write a C# Program to Read Lines from a File until the End of File is Reached.

using System;

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

using System.Text; using System.IO;

namespace p2

{

public class CopyFile

{

public void copyFile(string f1, string f2)

{

using (StreamReader reader = new StreamReader(f1)) using (StreamWriter writer = new StreamWriter(f2))

{

string line = null;

while ((line = reader.ReadLine()) != null) writer.WriteLine(line);

}

}

}

public class mmain{

public static void Main(){ CopyFile cp = new CopyFile();

string f1 = @"E:\Sem-6\VS\p2\p2\f1.txt"; string f2 = @"E:\Sem-6\VS\p2\p2\f2.txt"; cp.copyFile(f1,f2);

}

}

}

**Output:**

F1.txt:

Hello World..... hii

how

are you

???

F2.txt:

Hello World..... hii

how

are you

???

Program 3: Write a C# Program to List Files in a Directory.

using System;

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

using System.Text; using System.IO;

namespace p2

{

class ListFile

{

public static void Main() {

string[] Directories = Directory.GetDirectories(@"E:\Sem-6\VS"); foreach (string dir in Directories)

Console.WriteLine(dir);

string[] files = Directory.GetFiles(@"E:\Sem-6\VS"); foreach (string file in files)

Console.WriteLine(file); Console.ReadKey();

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>P4.3.exe

E:\Sem-6\VS\P1-master E:\Sem-6\VS\p2

E:\Sem-6\VS\Assignment.docx E:\Sem-6\VS\C# word.txt E:\Sem-6\VS\Doc1.docx E:\Sem-6\VS\P1-master.zip E:\Sem-6\VS\p1.cs

E:\Sem-6\VS\p1.exe E:\Sem-6\VS\VS.docx E:\Sem-6\VS\~$VS.docx

**Practical-6**

**Aim:**

# Windows Form Application

Program: Create Windows Form Application for Student Registration and store student Details in Database.

**Form.cs:**

using System;

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

using System.Drawing; using System.Linq; using System.Text;

using System.Windows.Forms; using System.Data.SqlClient; using System.IO;

namespace StudentForm

{

public partial class Form1 : Form

{

string imgPath; public Form1()

{

InitializeComponent();

}

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

{

string gen = null; string subject = null;

if (genMale.Checked == true) { gen = "m";

}

if (genFemale.Checked == true) { gen = "f";

}

if (ck1.Checked == true) { subject = subject + " s1";

}

if (ck2.Checked == true) { subject = subject + " s2";

}

string source = @"Data Source=Anjali\SQLExpress;Initial Catalog=DemoDb;Integrated Security=True;Pooling=False";

string insert = "insert into tblstudent (fname,lname,gender,subject,imgStudent) values ('" + txtfname.Text + "','" + txtlname.Text + "','" + gen + "','" + subject + "','" + (imgPath

== null ? "" : imgPath) + "')";

//MessageBox.Show(insert);

//string insert = "insert into tblstudent(fname) values ('jhgjh')"; SqlConnection conn = new SqlConnection(source);

SqlCommand cmd = new SqlCommand(insert,conn); conn.Open();

int i = cmd.ExecuteNonQuery(); conn.Close(); Console.WriteLine("Success....");

}

private void Form1\_Load(object sender, EventArgs e)

{

}

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

{

openFileDialog1.Filter = "Jpg|\*.jpg";

if (openFileDialog1.ShowDialog() == DialogResult.OK)

{

imgPath = openFileDialog1.SafeFileName;

pictureBox.Image = Image.FromFile(openFileDialog1.FileName);

//MessageBox.Show(imgPath);

}

}

}

}

**Program.cs:**

using System;

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

using System.Windows.Forms;

namespace StudentForm

{

static class Program

{

/// <summary>

/// The main entry point for the application.

/// </summary> [STAThread] static void Main()

{

Application.EnableVisualStyles(); Application.SetCompatibleTextRenderingDefault(false); Application.Run(new Form1());

}

}

}

**Output:**

**Practical-7**

**Aim:**

# ASP.NET Validation Control

Program: ASP.NET Validation Control RequiredFieldValidator CompareValidator RegularExpressionValidator CustomValidator RangeValidator ValidationSummary

<%@ Page Title="Home Page" Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="WebApplication2.\_Default" %>

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

<div>

<table>

<tr>

<td>

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

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs p;

<asp:TextBox ID="txtname" runat="server" ></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"

ControlToValidate="txtname" ErrorMessage="RequiredFieldValidator"></asp:RequiredFieldValidat or>

<br />

</td>

</tr>

<tr>

<td>

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

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs p;&nbsp;

<asp:TextBox ID="txtemail" runat="server"></asp:TextBox>

<asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"

ErrorMessage="RegularExpressionValidator" ValidationExpression="\w+([-+.']\w+)\*@\w+([-.]\w+)\*\.\w+([-

.]\w+)\*" ControlToValidate="txtemail"></asp:RegularExpressionValidator>

<br />

</td>

</tr>

<tr>

<td>

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

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

<br />

</td>

</tr>

<tr>

<td>

<asp:Label ID="Label4" runat="server" Text="Confirm Password"></asp:Label>

&nbsp;&nbsp;&nbsp;

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

<asp:CompareValidator ID="CompareValidator1" runat="server" ControlToCompare="txtcpass" ControlToValidate="txtpass" ErrorMessage="CompareValidator"></asp:CompareValidator>

<br />

</td>

</tr>

<tr>

<td>

<asp:Label ID="Label5" runat="server" Text="Sem"></asp:Label>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp

;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs p;&nbsp;&nbsp;

<asp:TextBox ID="txtsem" runat="server"></asp:TextBox>

<asp:RangeValidator ID="RangeValidator1" runat="server" ControlToValidate="txtsem" ErrorMessage="RangeValidator" MaximumValue="8"

MinimumValue="1"></asp:RangeValidator>

<br />

<asp:ValidationSummary ID="ValidationSummary1" runat="server" />

</td>

</tr>

<tr>

<td>

<asp:Button ID="Button1" runat="server" Text="Save" />

</td>

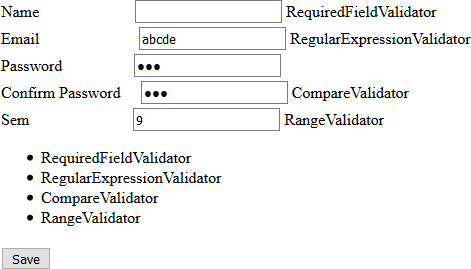
</tr>

</table>

</div>

</form>

**Output:**



**Practical-8**

**Aim:**

# Introduction To Master Pages

**Site1.Master:**

<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs" Inherits="WebApplication1.Site1" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" ["http://www.w](http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd)3[.org/TR/xhtml1/DTD/xhtml1-transitional.dtd](http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd)">

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

<head runat="server">

<title></title>

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

</asp:ContentPlaceHolder>

<style type="text/css">

.style1 {

width: 97px; height: 141px;

}

.style2

{

width: 97px; height: 105px;

}

.style3

{

width: 97px; height: 99px;

}

.style4

{

width: 9px;

}

</style>

</head>

<body>

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

<table height="50%" width="50%">

<tr>

<td class="style2" colspan="2">

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

</td>

</tr>

<tr>

<td class="style4">

<asp:Button ID="btnsearch" runat="server" Text="search" />

<asp:TextBox ID="txtsearch" runat="server"></asp:TextBox>

</td>

<td class="style3">

<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server"> content page

</asp:ContentPlaceHolder>

</td>

</tr>

<tr>

<td class="style1" colspan="2">

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

</td>

</tr>

</table>

</form>

</body>

</html>

**Site1.Master.cs:**

using System;

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

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

using System.Web.UI.WebControls;

namespace WebApplication1

{

public partial class Site1 : System.Web.UI.MasterPage

{

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

{

}

public Label LblHeader { get {

return lblheader;

}

}

public Button BtnSearch { get {

return btnsearch;

}

}

public TextBox TxtSearch { get {

return txtsearch;

}

}

}

}

**WebForm1.aspx:**

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication1.WebForm1" %>

<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

<asp:TextBox ID="txtname" runat="server" ></asp:TextBox>

<asp:Button ID="Button1" runat="server" Text="Set Header" onclick="Button1\_Click" />

</asp:Content>

**WebForm1.aspx.cs:**

using System;

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

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

using System.Web.UI.WebControls;

namespace WebApplication1

{

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

{

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

{

}

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

{

((Site1)Master).LblHeader.Text = txtname.Text;

}

}

}

**WebForm2.aspx:**

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication1.WebForm2" %>

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

<asp:GridView ID="grdstudent" runat="server">

</asp:GridView>

</asp:Content>

**WebForm2.aspx.cs:**

using System;

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

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

using System.Web.UI.WebControls; using System.Data.SqlClient; namespace WebApplication1

{

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

{

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

{

((Site1)Master).BtnSearch.Click += new EventHandler(BtnSearch\_Click);

}

void BtnSearch\_Click(object sender, EventArgs e) { getData();

}

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

{}

void getData() {

string s= ((Site1)Master).TxtSearch.Text; Console.WriteLine(s);

string source = @"Data Source=Anjali\SQLExpress;Initial Catalog=DemoDb;Integrated Security=True;Pooling=False";

string select = "select \* from tblstudent where fname like '%"+ ((Site1)Master).TxtSearch.Text + "%'";

SqlConnection con = new SqlConnection(source); SqlCommand cmd = new SqlCommand(select, con); con.Open();

SqlDataReader rdr = cmd.ExecuteReader(); grdstudent.DataSource = rdr; grdstudent.DataBind();

con.Close();

}

}

}

**Output:**

