LAB MANUAL .NET TECHNOLOGY

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Practical-1

Aim:

Variables:

Introduction to c#:

```
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 1 = 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)
    isZero = true;
    Console.WriteLine("i is Zero");
}
else
{
    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)</pre>
    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:
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
Float and Double:
11.22334 and
11.2233445566779
Decimal:
111.222333444555666777888999
Boolean:
Status: True
Character:
Single Quote '
Double Quote "
Back Slash \
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

Practical-2

Aim:

GTU Programs

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

```
(a_{1}, a_{2}, a_{3}, a_{4}, a_{5})
(a)(a)(a)
(a)(a)
(a)
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:

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

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:

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

Output:

```
Enter your name:
akash
Enter your City:
rajkot
Hello akash 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:

```
This is maruti class
This is Mahindra class...
```

160470107006 OVERLOADING

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:");
```

160470107006 OVERLOADING

```
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:
Enter Number 1:
Enter Number 2:
Addition of Number:3
Enter Vector 1:
1
Enter Vector 2:
1
Addition of vector: x=4, y=3
Addition of two metrics:
Addition: 6
Addition: 8
Addition: 10
Addition: 12
```

160470107006 OVERLOADING

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("Akash");
             Student s2 = new Student("Akash","160470107006");
Student s3 = new Student("Akash","160470107006","Computer");
        }
    }
}
```

Output:

```
First Constructor initiated..
Second Constructor initiated..
Third Constructor initiated..
```

160470107006 REFLECTION

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;
        }
```

160470107006 REFLECTION

```
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:

```
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()
```

160470107006 FILE HANDLING

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 vvp...
F2.txt: Hello vvp...
```

160470107006 FILE HANDLING

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
???
```

160470107006 FILE HANDLING

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\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=Akash-Patel\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:

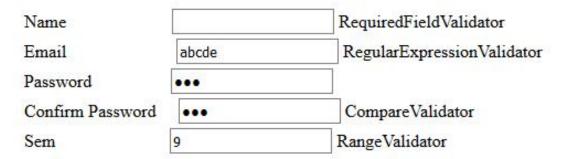
ASP.NET Validation Control

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

```
<%@ Page Title="Home Page" Language="C#" AutoEventWireup="true"</pre>
  CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>
<form id="form1" runat="server">
  <div>
     >
              <asp:Label runat="server" Text="Name"></asp:Label>
                       
              ;          
              p;
              <asp:TextBox ID="txtname" runat="server" ></asp:TextBox>
               <asp:RequiredFieldValidator ID="RequiredFieldValidator1"</pre>
               runat="server"
               ControlToValidate="txtname"
               ErrorMessage="RequiredFieldValidator"></asp:RequiredFieldValidat</pre>
               or>
              <br />
           >
              <asp:Label ID="Email" runat="server" Text="Email"></asp:Label>
                       
              ;          
              p;
```

```
<asp:TextBox ID="txtemail" runat="server"></asp:TextBox>
       <asp:RegularExpressionValidator ID="RegularExpressionValidator1"</pre>
      runat="server"
       ErrorMessage="RegularExpressionValidator"
       ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-
      .]\w+)*"
      ControlToValidate="txtemail"></asp:RegularExpressionValidator>
      <br />
   >
      <asp:Label ID="Label3" runat="server"</pre>
      Text="Password"></asp:Label>
              
      ;    
      <asp:TextBox ID="txtpass" runat="server"</pre>
      TextMode="Password"></asp:TextBox>
      <br />
   >
      <asp:Label ID="Label4" runat="server" Text="Confirm</pre>
      Password"></asp:Label>
         
      <asp:TextBox ID="txtcpass" runat="server"</pre>
      TextMode="Password"></asp:TextBox>
      <asp:CompareValidator ID="CompareValidator1" runat="server"</pre>
       ControlToCompare="txtcpass" ControlToValidate="txtpass"
       ErrorMessage="CompareValidator"></asp:CompareValidator>
       <br />
   <asp:Label ID="Label5" runat="server" Text="Sem"></asp:Label>
               
      ;          
      p;  
      <asp:TextBox ID="txtsem" runat="server"></asp:TextBox>
      <asp:RangeValidator ID="RangeValidator1" runat="server"</pre>
      ControlToValidate="txtsem" ErrorMessage="RangeValidator"
      MaximumValue="8"
        MinimumValue="1"></asp:RangeValidator>
```

Output:



- · RequiredFieldValidator
- RegularExpressionValidator
- CompareValidator
- RangeValidator

Save

Practical-8

Aim:

Introduction To Master Pages

Site1.Master:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"</pre>
Inherits="WebApplication1.Site1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"> <head</pre>
runat="server">
   <title></title>
   <asp:ContentPlaceHolder ID="head"</pre>
   runat="server"> </asp:ContentPlaceHolder> <style</pre>
   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">
   <asp:Label ID="lblheader" runat="server"</pre>
           Text="Header"></asp:Label> 
       <asp:Button ID="btnsearch" runat="server" Text="search" />
```

```
<asp:TextBox ID="txtsearch"</pre>
         runat="server"></asp:TextBox> 
         <asp:ContentPlaceHolder ID="ContentPlaceHolder1"
    runat="server"> content page
            </asp:ContentPlaceHolder>
         <asp:Label ID="lblfooter" runat="server"</pre>
         </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:

WebForm1.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace 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=Akash-Patel\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:

Header

Name	RollNo.	Semester
Richa	16ce026	6
Divya	16ce037	6
Bhargav	16ce012	6
Jarna	16ce055	5
Akash	16ce043	4

Search

Footer