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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;
```

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```
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;
           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);
```

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```
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 <</pre>
           5)
      {
                Console.WriteLine("The string had less than 5 characters");
           } else if (input.Length <</pre>
           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:
                                                                                 5
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```

```
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
Float and Double:
11.22334
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
```

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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.Col
lections.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++){</pre>
      for(int j=1;j<=i;j++){</pre>
                     Console.Write(j);
       Console.WriteLine();
       Console.ReadKey();
    }
}
```

Output:

```
E: \Sem-6\VS\p2\p2>Pattern2.exe
1
12
123
1234
```

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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:

```
E:\Sem-6\VS\p2\p2>Read.exe Enter
your name:
Ram
Enter your City:
rajkot
Hello Ram 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.Co
llections.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...
```

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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];
(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);
```

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

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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("abdws");
      Student s2 = new Student("Bhavin","125963952");
Student s3 = new Student("Bhavin","125963952","Computer"); }
}
```

Output:

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

170473107014 REFLECTIO

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;
        }
```

170473107014 REFLECTION

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()
```

170473107014 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";
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...
```

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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
???
```

170473107014 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\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:

```
usin g 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;
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=Bhavin\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;
```

Output:



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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>
                         
                ;          
                р;
                <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>
                  
         ;          &nbsp
         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>
                     <asp:ValidationSummary ID="ValidationSummary1" runat="server"</pre>
      /> 
      <asp:Button ID="Button1" runat="server" Text="Save"</pre>
      /> 
      </div>
</form>
```

Output:

Name		RequiredFieldValidator		
Email	abcde	RegularExpressionValidator		
Password	•••			
Confirm Password	•••	CompareValidator		
Sem	9	RangeValidator		

- RequiredFieldValidator
- RegularExpressionValidator
- CompareValidator
- RangeValidator

Save

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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 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">
      <asp:Label ID="lblheader" runat="server"
      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"</pre>
      runat="server"> content page
      </asp:ContentPlaceHolder>
      <asp:Label ID="lblfooter" runat="server"</pre>
      Text="Footer"></asp:Label> 
      </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:

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;
us ing 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=Bhavin\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:

ABC

search ABC Set Header

Footer

Header

 search
 pkstudent fname lname gender subject
 imgStudent

 A
 22
 ABC
 AAA
 f
 s1
 IMG-20170326-WA0009.jpg

Footer

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