

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;

```

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INTRO TO C#

```

        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");

```

INTRO TO C#

```

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"); //Notification 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)
{
    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 i      s: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:
viral
The string had at least 5 but less than 10 characters
The string was viral
```

```
Switch:
integerA = 2
Good morning!
```

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Practical-2 Aim:

Inheritance

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:

```

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

```

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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:

```

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:

```

Enter your name:
viral Enter your
City:   rajkot

Hello viral 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...

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:");

```

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```

        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 matrices:");        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 1:1
Enter Number 2:2
Addition of Number:3

```

```

Enter Vector 1:
1
2
Enter Vector 2:

```

3

4

Addition of vector: x=4, y=6

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("Viral");
        Student s2 = new Student("Viral","160470107043");
        Student s3 = new Student("Viral","160470107043","Computer"); }
    }
}
```

Output:

```
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)
```

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FILE HANDLING

```
{  
    this.ID = ID;  
    this.Name = Name;  
}
```

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15 REFLECTION

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```
        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()

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...

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\ p2\f1.txt"; string f2 =
@"E:\Sem-6\ 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 ");
            foreach (string file in files)
                Console.WriteLine(file);

            Console.ReadKey();

        }
    }
}
```

Output:

```
E:\Sem-6\ P1-master
E: \Sem-6\ p2
E:\Sem-6\ Assignment.docx
E: \Sem-6\ C# word.txt
E:\Sem-6\ Doc1.docx
E: \Sem-6\ P1-master.zip
E: \Sem-6\ p1.cs
E:\Sem-6\ p1.exe E:
\Sem-6\ 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=Viral-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
        ('jhghj')"; 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:

The screenshot displays a Windows Form application with a light gray background. On the left side, there are four labeled text boxes: "First Name", "Last Name", "Gender", and "subject". The "First Name" and "Last Name" boxes are empty. The "Gender" box contains two radio buttons, "Male" (which is selected) and "Female". The "subject" box contains two checkboxes, "s1" and "s2", both of which are unchecked. Below the "subject" box is a small square icon. To the right of these fields is a rectangular area containing a small, blurry image of a person's face. Below this image is a button labeled "Upload". At the bottom left of the form is a button labeled "Save".

Practical-7

Aim:

ASP.NET Validation Control

Program: ASP.NET Validation Control

[illegible]

```

<asp:TextBox ID="txtsem" runat="server"></asp:TextBox>
<asp:RangeValidator ID="RangeValidator1" runat="server"
ControlToValidate="txtsem" ErrorMessage="RangeValidator"
MaximumValue="8"
MinimumValue="1"></asp:RangeValidator>

```

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ASP.NET VALIDATION CONTROL

```

        <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:

Name	<input type="text"/>	RequiredFieldValidator
Email	<input type="text" value="abcde"/>	RegularExpressionValidator
Password	<input type="password" value="..."/>	
Confirm Password	<input type="password" value="..."/>	CompareValidator
Sem	<input type="text" value="9"/>	RangeValidator

- RequiredFieldValidator
- RegularExpressionValidator
- CompareValidator
- RangeValidator

INTRODUCTION TO MASTER PAGES

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.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" />
                </td>
            </tr>
        </table>
    </form>

```

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```

        <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>

```

INTRODUCTION TO MASTER PAGES

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;
        }

    }
}

```

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}

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=Viral-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:

ABC

Footer

Header

<input type="button" value="search"/>	
<input type="text" value="ABC"/>	

pkstudent	fname	lname	gender	subject	imgStudent
18	ABC	gdag	m	s1 s2	IMG-20170326-WA0009.jpg
21	ABC	iggf	m	s1 s2	IMG-20170326-WA0009.jpg

Footer