



.NET LAB MANUAL

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VVP CE SEM-6

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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.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace aim
{
    class Program
    {
        static int newint=100;
        public enum TimeOfDay
        {
            Morning = 0,
            Afternoon = 1,
            Evening = 2
        }

        public static void Main(string[] args)
        {
            Console.WriteLine("\n integer types");

            sbyte sb = 10;
            short s = 33;
            int i = 10;
            long l = 33L;
            byte b = 22;
            ushort us = 33;
            uint ul = 33u;
            ulong ulo = 33ul;
```

```
ulo);

Console.WriteLine("{0},{1},{2},{3},{4},{5},{6},{7}", sb, s, i, l, b, us, ul,
float f = 1.122345656767f;
double d = 12.1234455657878797;
Console.Write("\nFloat and Double:\n");
Console.WriteLine("{0} and {1}", f, d);

    decimal dec=111.66666666666666666666M;
    Console.WriteLine("decimal:\n{0} ",dec);
    Console.WriteLine("\nBoolean:");
    bool boolean =true;
    Console.WriteLine("Status: " + boolean);
// Console.ReadLine();

    char character ='d';
    Console.WriteLine(character);
    character = '\0';
    Console.WriteLine("Now null: " + character);
    object o1 = "Hi, I am ALICE";
    object o2 = 15.3454365;
    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 s1, s2;
    s1 = "this is string";
    s2 = s1;
    Console.WriteLine("S1 is: {0} and s2 is {1}", s1, s2);
    s2 = "other string";
    Console.WriteLine("S1 is: {0} and s2 is {1}", s1, s2);
    s1 = "c:C:\\Users\\Dell\\source\\repos\\aim";
    Console.WriteLine(s1);
    s1 = @"c:C:\Users\Dell\source\repos\aim\aim";
    Console.WriteLine(s1);
```

```
s1 = @"We can also write
like this";
Console.WriteLine(s1);
bool isZero;
Console.WriteLine("\nFlow Control: (if)\ni is " + i);
if (i == 10)
{
    isZero = true;
    Console.WriteLine("i is Zero {0}",isZero);
}
else
{
    isZero = false;
    Console.WriteLine("i is Non - zero");
}
int integerA = 1;
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;}
```

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

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;
    }
}

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

int newint=0;

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 al-
ready
```

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

    Console.WriteLine("2:");
for (int k = 0; k < 3; k++)
{
    Console.Write("{0} ", k);
} //Scope of k ends here
Console.Write("\n");
//Console.Write(k);
//uncomment above line to see error "The name 'k' does not exist in the current context"
for (int k = 3; k > 0; k--)
{
    Console.Write("{0} ", k);
} //scope of k ends here again

Console.WriteLine("Constants");

    const int valConst = 100; // This value cannot be changed.
Console.WriteLine("{0} is constant value", valConst);
//valConst = 45;
//uncomment above line to see error "The left-hand side of an assignment must be a variable, property or indexer"

//const only allow constant variables into the expression
const int valConst2 = valConst + 9 /* + j*/;

//remove comments from the above line to see error "The expression being assigned to 'valConst2' must be constant"
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);

//If a variable is a reference, it is possible to indicate that it does not
refer to any object by setting its value to null:
y = null;

//Console.Write("Value for y is: " + y.value);

//uncomment above line to see runtime exception "Sys-
tem.NullReferenceException: Object reference not set to an instance of an object."
//CTS

    }

    public class Vector
    {
        public int value;
    }
}

}
```


OUTPUT

```
D:\Study\SEM 6\NET>temp
```

```
integer types  
10,33,10,33,22,33,33,33
```

```
Float and Double:  
1.122346 and  
12.1234455657879  
decimal:  
111.6666666666666666666666666666
```

```
Boolean:  
Status: True  
d  
Now null:  
Hi, I am ALICE  
846299202 System.String  
1302462624 System.Double  
False  
S1 is: this is string and s2 is this is string  
S1 is: this is string and s2 is other string  
c:C:\Users\Dell\source\repos\aim  
c:C:\Users\Dell\source\repos\aim\aim  
We can also write  
like this
```

```
Flow Control: (if)  
i is 10  
i is Zero True
```

```
Switch:  
integerA = 1  
Good morning!
```

AIM: Inheritance

Program 1

Perform following programs in c#.

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;
using System.Threading.Tasks;

namespace pattern1
{
    class Program
    {
        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

```
C:\> Developer Command Prompt for VS 2017 - pattern
D:\Study\SEM 6\NET>pattern
@@@@@
@@@@@
@@@@@
@@@
@@
@
```

Program 2

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

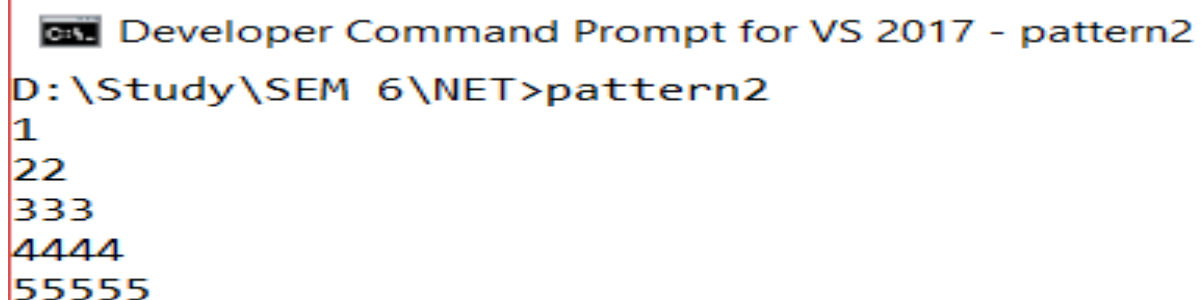
```
1
1 2
1 2 3
1 2 3 4
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace pattern2
{
    class Program
    {
        static void Main(string[] args)
        {
            for(int i=1;i<=5;i++)
            {
                for(int j=i;j>0;j--)
                {
                    Console.Write("{0}",i);

                }
                Console.WriteLine("");
            }
            Console.ReadKey();
        }
    }
}
```

OUTPUT



```
C:\> Developer Command Prompt for VS 2017 - pattern2
D:\Study\SEM 6\NET>pattern2
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Program 3

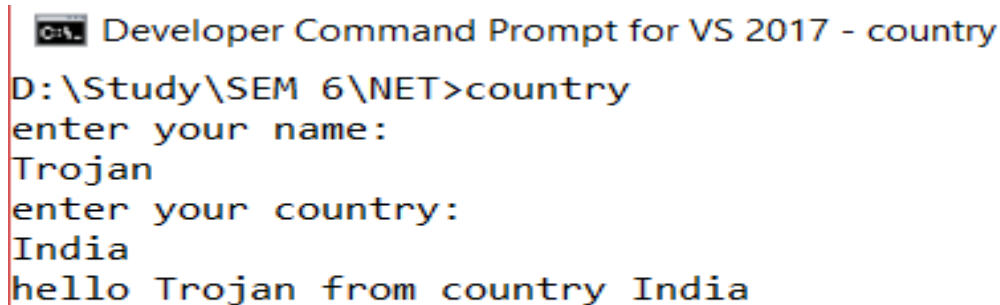
Write C# code to prompt a user to input his/her name and country name and then the output will be shown as an example below:

Hello Ram from country India

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace country
{
    class Program
    {
        static void Main(string[] args)
        {
            string name;
            string country;
            Console.WriteLine("enter your name:");
            name=Console.ReadLine();
            Console.WriteLine("enter your country:");
            country = Console.ReadLine();
            Console.WriteLine("hello {0} from country {1}",name,country);
            Console.ReadKey();
        }
    }
}
```

OUTPUT




```
Developer Command Prompt for VS 2017 - country
D:\Study\SEM 6\NET>country
enter your name:
Trojan
enter your country:
India
hello Trojan from country India
```

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;
using System.Threading.Tasks;

namespace practical2._3
{
    class car
    {
        public void Method1()
        {
            Console.WriteLine("this is the method of car class");
        }
    }
    class maruti:car
    {
        public void method2()
        {
            Console.WriteLine("this is the method of maruti");
            Console.ReadKey();
        }
    }
    class mahindra:car
    {
        public void method3()
        {
            Console.WriteLine("this is the method of mahindra");
        }
    }
    class Program
    {
        static void Main(string[] args)
        {
            mahindra m = new mahindra();
            maruti m1 = new maruti();
            m.Method1();
            m1.Method1();
            Console.ReadKey();
        }
    }
}
```

OUTPUT Developer Command Prompt for VS 2017 - assCar

```
D:\Study\SEM 6\NET>assCar  
this is the method of car class  
this is the method of car class
```

AIM: Method & constructor 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:");
```



```

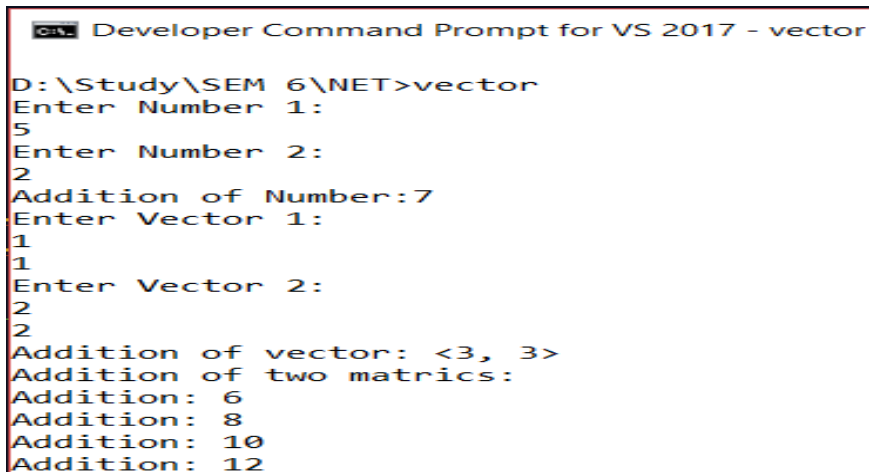
n1 = Convert.ToInt32(Console.ReadLine()); n2 = Con-
vert.ToInt32(Console.ReadLine());
Vector v1 = new Vector(n1,n2);
Console.WriteLine("Enter Vector 2:");
n1 =Convert.ToInt32(Console.ReadLine()); n2 = Con-
vert.ToInt32(Console.ReadLine()); Vector v2 = new Vector(n1,n2);
v = add(v1, v2);

Console.WriteLine("Addition of vector: <{0}, {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



```

C:\> Developer Command Prompt for VS 2017 - vector
D:\Study\SEM 6\NET>vector
Enter Number 1:
5
Enter Number 2:
2
Addition of Number:7
Enter Vector 1:
1
1
Enter Vector 2:
2
2
Addition of vector: <3, 3>
Addition of two matrices:
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;
using System.Threading.Tasks;
using System.Reflection;
namespace p3a1
{
    class Program
    {
        public int ID { get; set; }
        public string Name { get; set; }
        String name, branch;
        int enrol;
        public Program(String name)
        {
            this.name = name;
            Console.WriteLine("constructor 1:" + name);
        }
        public Program(String name, int enrol)
        {
            this.name = name;
            this.enrol = enrol;
            Console.WriteLine("constructor 2:" + name + " " + enrol);
        }
        public Program(String name, int enrol, String branch)
        {
            this.name = name;
            this.enrol = enrol;
            this.branch = branch;
            Console.WriteLine("constructor 3:" + name + " " + enrol + " " + branch);
        }
        static void Main(string[] args)
        {
            Program p1 = new Program("Dhyey");
            Program p2 = new Program("ABC", 60);
            Program p3 = new Program("ABC ", 60, "CE");
            Console.ReadLine();
        }
    }
}
```

```
}  
    }  
}
```

AIM:Reflection

Program:1

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;  
    }  
}
```

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:

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()

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 Sys-
tem.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 Sys-
tem.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 Sys-
tem.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
```

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 Sys-
tem.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=Deep -Pambhar\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) + "')";

    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:

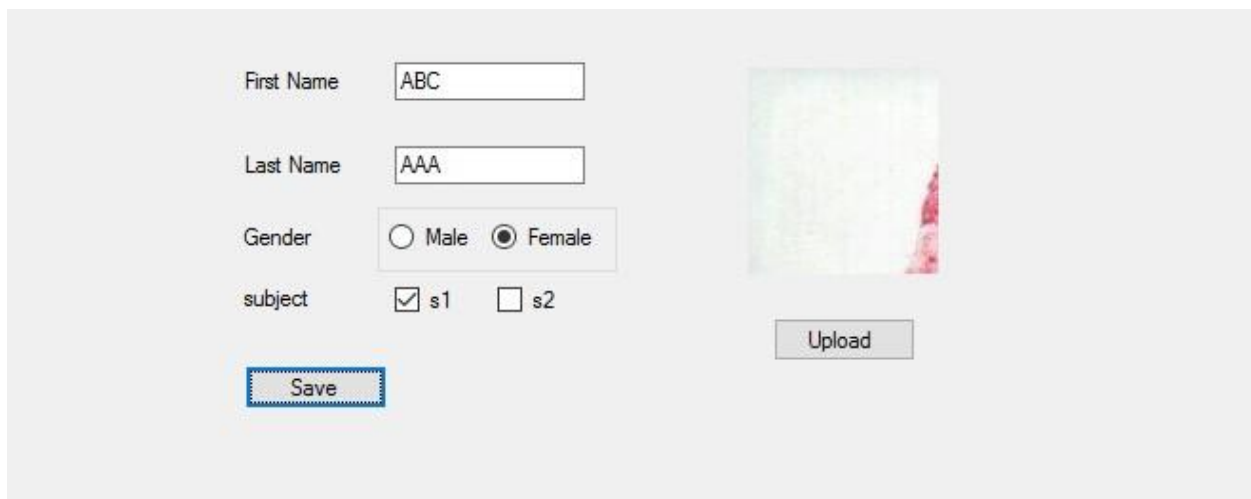
```
using System;

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' containing 'ABC', 'Last Name' containing 'AAA', 'Gender' with radio buttons for 'Male' and 'Female' (where 'Female' is selected), and 'subject' with checkboxes for 's1' (checked) and 's2'. Below these fields are two buttons: 'Save' and 'Upload'. The 'Save' button is highlighted with a blue dashed border. To the right of the form fields is a small, square image placeholder showing a blurry, abstract pattern.


```
<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;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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 Pass-
word"></asp:Label>


        &nbsp;&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>

<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:

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

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 run  
at="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 :      Sys-
tem.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 Sys-
tem.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 Sys-
tem.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=Deep -Pambhar\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	<input type="text"/>	ABC	Set Header
--------	----------------------	-----	------------

Footer

Header

search	<table><tr><th>pkstudent</th><th>fname</th><th>lname</th><th>gender</th><th>subject</th><th>imgStudent</th></tr><tr><td>22</td><td>ABC</td><td>AAA</td><td>f</td><td>s1</td><td>IMG-20170326-WA0009.jpg</td></tr></table>	pkstudent	fname	lname	gender	subject	imgStudent	22	ABC	AAA	f	s1	IMG-20170326-WA0009.jpg
pkstudent	fname	lname	gender	subject	imgStudent								
22	ABC	AAA	f	s1	IMG-20170326-WA0009.jpg								
A													

Footer