**V.V.P. ENGINEERING COLLEGE , RAJKOT**

2019

**LAB MANUAL**

**.NET TECHNOLOGY**

**[Type the author name]**

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**Aim:**

# Introductiontoc#:

**Practical-1**

Variables:InitializationScope Constant

PredefinedDataTypesValueTypesReferenceTYpes

FlowControl

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

EumerationsPassingArguments

usingSystem;

usingSystem.Threading;namespaceP1

{

classP1

{

staticintj=90;publicenumTimeOfDay

{

Morning=0,

Afternoon=1,

Evening=2

}

publicstaticvoidMain(string[]args)

{

Console.WriteLine("FirstProgram");

inti;i=25;

Console.WriteLine("ScopeofVariables.\n1:");intj;

for(intj=0;j<2;j++)//removingcommentfromforloopwillraiseerror

{

//intj;

//uncommentabovelinetoerror"Alocalvariablenamed'j'cannotbedeclaredinthis

//scopebecauseitwouldgiveadifferentmeaningto'j',whichisalready

//usedina'parentorcurrent'scopetodenotesomethingelse"Console.Write("{0}{1}\n",j,P1.j);

}

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

{

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

}

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

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

{

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

}

Console.WriteLine("Constants");

constintvalConst=100;//Thisvaluecannotbechanged.Console.WriteLine("{0}isconstantvalue",valConst);valConst=45;

constintvalConst2=valConst+9/\*+j\*/;Console.WriteLine("AnotherConstant:{0}",valConst2);

Console.WriteLine("\nPredefinedDataTypes\n\nValueTypesandReferenceTypes");

//ValueTypes

intvali=2,valj=vali;

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

Console.WriteLine("valiis:{0}andvaljis:{1}",vali,valj);

//RefereceTypesVectorx,y;

x=newVector();x.value=3;

y=x;

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

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

y=null;

Console.Write("Valueforyis:"+y.value);Console.WriteLine("\nIntegerTypes");

sbytesb=33;shorts=33;int\_i=33;longl=33L;

//UnsignedIntegersbyteb=33;

ushortus=33;uintui=33U;ulongul=33UL;

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

//Floatingpointtypesfloatf=11.22334455F;

doubled=11.2233445566778899;

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

//DecimalType

decimaldec=111.222333444555666777888999M;

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

//BooleanConsole.WriteLine("\nBoolean:");boolvalBoolean=true;

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

//Character

Console.WriteLine("\nCharacter:\nSingleQuote\'");Console.WriteLine("DoubleQuote\"");Console.WriteLine("BackSlash\\");

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

Console.WriteLine("Nownull:"+charA);Console.WriteLine("\a");//NotoficationSoundThread.Sleep(1000);

Console.Beep();//anothernotificationsound

objecto1="Hi,IamanObject";objecto2=34;

stringstrObj=o1asstring;Console.WriteLine(strObj);

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

//stringstrings1,s2;

s1="String1";s2=s1;

Console.WriteLine("S1is:{0}ands2is{1}",s1,s2);s2="NewString1";

Console.WriteLine("S1is:{0}ands2is{1}",s1,s2);s1="c:\\NewFolder\\Hello\\P1.cs";Console.WriteLine(s1);

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

s1=@"Wecanalsowritelikethis";Console.WriteLine(s1);

//FlowControl

//TheifStatementboolisZero;

Console.WriteLine("\nFlowControl:(if)\niis"+i);if(i==0)

{

}

else

{

}

isZero=true;Console.WriteLine("iisZero");

isZero=false;

Console.WriteLine("iisNon-zero");

//elseif

Console.WriteLine("\nTypeinastring:");stringinput;

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

{

Console.WriteLine("Youtypedinanemptystring");

}

elseif(input.Length<5)

{

Console.WriteLine("Thestringhadlessthan5characters");

}

elseif(input.Length<10)

{

Console.WriteLine("Thestringhadatleast5butlessthan10characters");

}

Console.WriteLine("Thestringwas"+input);

//Switch

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

switch(integerA)

{

case1:

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

case2:

Console.WriteLine("integerA=2");

//gotocase3;break;

case3:

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

default:

Console.WriteLine("integerAisnot1,2,or3");break;

}

//Loops-tobeexplored

//jumpstatementsgoto,break,continue,return-tobeexplored

//Enumerations

//Anenumeration isa user-definedinteger type.

//Benefits:

//1.Asmentioned,enumerationsmakeyourcodeeasiertomaintain

//2.Enumerationsmakeyour code clearerbyallowingyoutorefertointegervaluesbydescriptive names

//3.Enumerationsmakeyourcodeeasiertotype,too.Whenyougotoassignavaluetoaninstanceofanenumeratedtype,

//theVisualStudio.NETIDEwill,throughIntelliSense,popupalistboxofacceptablevaluesin ordertosave

//yousomekeystrokesandtoremindyouofwhatthepossibleoptionsare.

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

}

staticvoidWriteGreeting(TimeOfDaytimeOfDay)

{

switch(timeOfDay)

{

caseTimeOfDay.Morning:Console.WriteLine("Goodmorning!");break;

caseTimeOfDay.Afternoon:Console.WriteLine("Goodafternoon!");break;

caseTimeOfDay.Evening:Console.WriteLine("Goodevening!");break;

default:

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

}

}

}

publicclassVector

{

publicintvalue;

}

}

**Output:**

E:\Sem-6\VS>p1.exeFirstProgramScopeofVariables.1:

090

190

2:

012

321Constants

100isconstantvalueAnotherConstant:109

PredefinedDataTypes

ValueTypesandReferenceTypesvaliis:2andvaljis:2

valiis:2andvaljis:90xis:3andyis:3

xis:234andyis:234

IntegerTypes

3333333333 3333 33

FloatandDouble:11.22334and

11.2233445566779

Decimal:111.222333444555666777888999

Boolean:Status:True

Character:SingleQuote'DoubleQuote"BackSlash\A

Nownull:

Hi,IamanObject

-1735802816System.String

34System.Int32False

S1is:String1ands2isString1

S1is:String1ands2isNewString1

c:\NewFolder\Hello\P1.csc:\NewFolder\Hello\P1.csWecanalsowrite

likethis

FlowControl:(if)iis25

iisNon-zero

Typeinastring:samir

Thestringhadatleast5butlessthan10charactersThestringwassamir

Switch:integerA=2Goodmorning!

**Aim:**

GTU Programs

**Practical-2**

Program1.Writeconsolebasedprogramin codebehindlanguageVB or C#toprintfollowingpattern.

@@@@@

@@@@

@@@

@@

@

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;

namespacep2

{

classPattern1

{

staticvoidMain(string[]args)

{

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

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

Console.Write('@');

}

Console.WriteLine();

}

Console.ReadKey();

}

}

}

**Output:**

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

@@@@@

@@@@

@@@

@@

@

Program2.Writeconsolebasedprogramin codebehindlanguageVB or C#toprintfollowingpattern.

1

12

123

1234

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;

namespacep2

{

classPattern2

{

staticvoidMain(String[]ar){for(inti=1;i<5;i++){

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

}

Console.WriteLine();

}

Console.ReadKey();

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Pattern2.exe1

12

123

1234

Program3.Write C#codetoprompta usertoinputhis/hername andcountryname andthentheoutputwillbeshownasanexamplebelow:

HelloRamfromcountryIndia

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;

namespacep2

{

classRead

{

staticvoidMain(String[]ar){Console.WriteLine("Enteryourname:");stringname=Console.ReadLine();Console.WriteLine("EnteryourCity:");stringcity=Console.ReadLine();

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

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Read.exeEnteryourname:

Darhit

EnteryourCity:rajkot

HelloSamirfromcityRajkot

Program4.Whatisinheritance?CreateC#consoleapplicationtodefine Car classandderiveMarutiandMahindrafromitto demonstrateinheritance.

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;

namespacep2

{

publicclassCar

{

publicvirtualvoiddisplay()

{

Console.WriteLine("ThisisCarclass...");

}

}

publicclassMahindra:Car

{

publicoverridevoiddisplay()

{

Console.WriteLine("ThisisMahindraclass...");

}

}

publicclassMaruti:Car

{

publicoverridevoiddisplay()

{

Console.WriteLine("Thisismaruticlass");

}

}

classInheritance

{

staticvoidMain(String[]ar){Marutim=newMaruti();Mahindramm=newMahindra();m.display();

mm.display();

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Inheritance.exeThisismaruticlass

ThisisMahindraclass...

**Aim:**

Overloading

**Practical-3**

Program1:Write ac#programtoaddtwointegers, twovectors andtwometricusingmethodoverloading.

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;

namespacep2

{

publicclassP3\_1

{

publicintadd(inta,intb){returna+b;

}

publicstaticVectoradd(Vectorv1,Vectorv2){Vectorv=newVector();

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

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

}

publicstaticint[,]add(int[,]a,int[,]b){int[,]s=newint[2,2];

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

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

}

}

returns;

}

publicstaticvoidMain(String[]ar){intn,n1,n2;

Vectorv=newVector();

Console.WriteLine("EnterNumber1:");

n1=Convert.ToInt32(Console.ReadLine());Console.WriteLine("EnterNumber2:");

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

Console.WriteLine("AdditionofNumber:{0}",n);

Console.WriteLine("EnterVector1:");

n1=Convert.ToInt32(Console.ReadLine());n2=Convert.ToInt32(Console.ReadLine());Vectorv1=newVector(n1,n2);

Console.WriteLine("EnterVector2:");

n1=Convert.ToInt32(Console.ReadLine());n2=Convert.ToInt32(Console.ReadLine());Vectorv2=newVector(n1,n2);

v=add(v1,v2);

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

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

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

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

}

}

Console.ReadKey();

}

}

publicclassVector{publicinta,b;publicVector(){}

publicVector(inta,intb)

{

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

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>P3.1.exeEnterNumber1:

1

EnterNumber2:

2

AdditionofNumber:3

EnterVector1:

1

2

EnterVector2:

3

1

Additionofvector:x=4,y=3

Additionoftwometrics:Addition:6

Addition:8

Addition:10

Addition:12

Program2: Write ac#programthatcreatestudentobject. Overloadconstructortocreatenewinstantwithfollowingdetails.

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

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;

namespacep2

{

publicclassStudent

{

stringname,enrollment,branch;publicStudent(stringname){

this.name=name;

Console.WriteLine(“FirstConstructorinitiated..”);

}

publicStudent(stringname,stringenrollment){this.name=name;

this.enrollment=enrollment;

Console.WriteLine(“SecondConstructorinitiated..”);

}

publicStudent(stringname,stringenrollment,stringbranch){this.name=name;

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

Console.WriteLine(“ThirdConstructorinitiated..”);

}

publicstaticvoidMain(String[]ar){Students1=newStudent("SAMIR");

Students2=newStudent("SAMIR","160470107013");

Students3=newStudent("SAMIR","160470107013","Computer");

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>P3.2.exeFirstConstructorinitiated..SecondConstructorinitiated..ThirdConstructorinitiated..

**Aim:**

Reflection

**Practical-4**

Create ac#programto findMethods, PropertiesandConstructorsfromclassofrunningprogram.(UseClassfromprevious practical)

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;usingSystem.Reflection;

namespacep2

{

classReflection

{

staticvoidMain()

{

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

{

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

}

PropertyInfo[]properties=T.GetProperties();

Console.WriteLine("\nProperties");

foreach(PropertyInfopropertyinproperties)

{

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

}

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

{

Console.WriteLine(constructor.ToString());

}

}

}

classCustomer

{

publicintID{get;set;}publicstringName{get;set;}

publicCustomer(intID,stringName)

{

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

}

publicCustomer()

{

this.ID=-1;

this.Name=string.Empty;

}

publicvoidprintID()

{

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

}

publicvoidprintName()

{

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

}

}

}

**Output:**

E:\Sem-6\VS\p2\p2>Reflection.exeSystem.Int32get\_ID

System.Voidset\_IDSystem.Stringget\_NameSystem.Voidset\_NameSystem.VoidprintIDSystem.VoidprintNameSystem.StringToStringSystem.BooleanEqualsSystem.Int32GetHashCodeSystem.TypeGetType

PropertiesSystem.Int32IDSystem.StringName

Constructors

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

**Aim:**

File Handling

**Practical-5**

Program1:Write aC#programtocopydata fromone file toanotherusingStreamReaderandStreamWriterclass.

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;usingSystem.IO;

namespacep2

{

classP4\_1

{

publicstaticvoidMain(){stringf1=@"f1.txt";stringf2=@"f2.txt";

using(StreamReaderreader=newStreamReader(f1))using(StreamWriterwriter=newStreamWriter(f2))

writer.Write(reader.ReadToEnd());

}

}

}

**Output:**

F1.txt:HelloWorld…F2.txt:HelloWorld…

Program2:Write aC#ProgramtoReadLinesfromaFile untiltheEndof FileisReached.

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;usingSystem.IO;

namespacep2

{

publicclassCopyFile

{

publicvoidcopyFile(stringf1,stringf2)

{

using(StreamReaderreader=newStreamReader(f1))using(StreamWriterwriter=newStreamWriter(f2))

{

stringline=null;

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

}

}

}

publicclassmmain{

publicstaticvoidMain(){CopyFilecp=newCopyFile();

stringf1=@"E:\Sem-6\VS\p2\p2\f1.txt";stringf2=@"E:\Sem-6\VS\p2\p2\f2.txt";cp.copyFile(f1,f2);

}

}

}

**Output:**

F1.txt:

HelloWorld.....hii

howareyou

???

F2.txt:

HelloWorld.....hii

howareyou

???

Program3:Write aC#ProgramtoListFilesinaDirectory.

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Text;usingSystem.IO;

namespacep2

{

classListFile

{

publicstaticvoidMain(){

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

Console.WriteLine(dir);

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

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

}

}

}

**Output:**

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

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

E:\Sem-6\VS\Assignment.docxE:\Sem-6\VS\C#word.txtE:\Sem-6\VS\Doc1.docxE:\Sem-6\VS\P1-master.zipE:\Sem-6\VS\p1.cs

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

**Practical-6**

**Aim:**

WindowsFormApplication

Program:Create WindowsFormApplicationforStudentRegistration andstorestudentDetailsinDatabase.

**Form.cs:**

usingSystem;

usingSystem.Collections.Generic;usingSystem.ComponentModel;usingSystem.Data;

usingSystem.Drawing;usingSystem.Linq;usingSystem.Text;

usingSystem.Windows.Forms;usingSystem.Data.SqlClient;usingSystem.IO;

namespaceStudentForm

{

publicpartialclassForm1:Form

{

stringimgPath;publicForm1()

{

InitializeComponent();

}

privatevoidbtnsave\_Click(objectsender,EventArgse)

{

stringgen=null;stringsubject=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";

}

stringsource=@"DataSource=samir \SQLExpress;InitialCatalog=DemoDb;IntegratedSecurity=True;Pooling=False";

stringinsert="insertintotblstudent(fname,lname,gender,subject,imgStudent)values('"+txtfname.Text+"','"+txtlname.Text+"','"+gen+"','"+subject+"','"+(imgPath

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

//MessageBox.Show(insert);

//stringinsert="insertintotblstudent(fname)values('jhgjh')";SqlConnectionconn=newSqlConnection(source);

SqlCommandcmd=newSqlCommand(insert,conn);conn.Open();

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

}

privatevoidForm1\_Load(objectsender,EventArgse)

{

}

privatevoidbtnimg\_Click(objectsender,EventArgse)

{

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

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

{

imgPath= openFileDialog1.SafeFileName;

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

//MessageBox.Show(imgPath);

}

}

}

}

**Program.cs:**

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Windows.Forms;

namespaceStudentForm

{

staticclassProgram

{

///<summary>

///Themainentrypointfortheapplication.

///</summary>[STAThread]staticvoidMain()

{

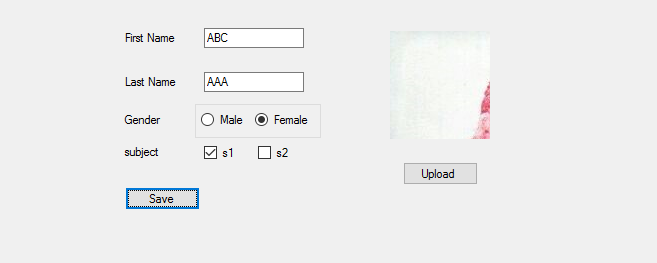
Application.EnableVisualStyles();Application.SetCompatibleTextRenderingDefault(false);Application.Run(newForm1());

}

}

}

**Output:**



**Practical-7**

**Aim:**

ASP.NET ValidationControl

Program:ASP.NETValidationControlRequiredFieldValidatorCompareValidatorRegularExpressionValidatorCustomValidatorRangeValidatorValidationSummary

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

<formid="form1"runat="server">

<div>

<table>

<tr>

<td>

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

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

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

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

<asp:RequiredFieldValidatorID="RequiredFieldValidator1"runat="server"

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

<br/>

</td>

</tr>

<tr>

<td>

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

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

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

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

<asp:RegularExpressionValidatorID="RegularExpressionValidator1"runat="server"

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

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

<br/>

</td>

</tr>

<tr>

<td>

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

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

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

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

<br/>

</td>

</tr>

<tr>

<td>

<asp:LabelID="Label4"runat="server"Text="ConfirmPassword"></asp:Label>

&nbsp;&nbsp;&nbsp;

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

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

<br/>

</td>

</tr>

<tr>

<td>

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

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

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

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

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

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

<br/>

<asp:ValidationSummaryID="ValidationSummary1"runat="server"/>

</td>

</tr>

<tr>

<td>

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

</td>

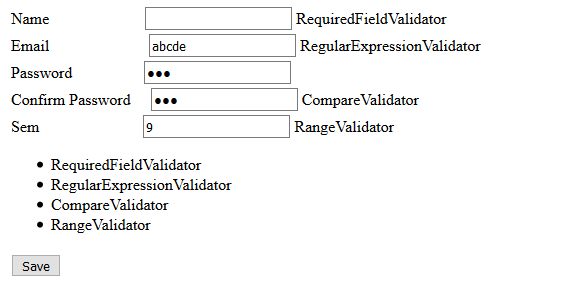
</tr>

</table>

</div>

</form>

**Output:**



**Practical-8**

**Aim:**

IntroductionTo MasterPages

**Site1.Master:**

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

<!DOCTYPEhtmlPUBLIC"-//W3C//DTDXHTML1.0Transitional//EN"["http://www.w](http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd)3[.org/TR/xhtml1/DTD/xhtml1-transitional.dtd](http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd)">

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

<headrunat="server">

<title></title>

<asp:ContentPlaceHolderID="head"runat="server">

</asp:ContentPlaceHolder>

<styletype="text/css">

.style1{

width:97px;height:141px;

}

.style2

{

width:97px;height:105px;

}

.style3

{

width:97px;height:99px;

}

.style4

{

}

</style>

</head>

<body>

width:9px;

<formid="form1"runat="server">

<tableheight="50%"width="50%">

<tr>

<tdclass="style2"colspan="2">

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

</td>

</tr>

<tr>

<tdclass="style4">

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

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

</td>

<tdclass="style3">

<asp:ContentPlaceHolderID="ContentPlaceHolder1"runat="server">contentpage

</asp:ContentPlaceHolder>

</td>

</tr>

<tr>

<tdclass="style1"colspan="2">

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

</td>

</tr>

</table>

</form>

</body>

</html>

**Site1.Master.cs:**

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Web;usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespaceWebApplication1

{

publicpartialclassSite1:System.Web.UI.MasterPage

{

protectedvoidPage\_Load(objectsender,EventArgse)

{

}

publicLabelLblHeader{get{

returnlblheader;

}

}

publicButtonBtnSearch{get{

returnbtnsearch;

}

}

publicTextBoxTxtSearch{get{

returntxtsearch;

}

}

}

}

**WebForm1.aspx:**

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

<asp:ContentID="Content1"ContentPlaceHolderID="ContentPlaceHolder1"runat="server">

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

<asp:ButtonID="Button1"runat="server"Text="SetHeader"onclick="Button1\_Click"/>

</asp:Content>

**WebForm1.aspx.cs:**

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Web;usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;

namespaceWebApplication1

{

publicpartialclassWebForm1:System.Web.UI.Page

{

protectedvoidPage\_Load(objectsender,EventArgse)

{

}

protectedvoidButton1\_Click(objectsender,EventArgse)

{

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

}

}

}

**WebForm2.aspx:**

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

<asp:ContentID="Content2"ContentPlaceHolderID="ContentPlaceHolder1"runat="server">

<asp:GridViewID="grdstudent"runat="server">

</asp:GridView>

</asp:Content>

**WebForm2.aspx.cs:**

usingSystem;

usingSystem.Collections.Generic;usingSystem.Linq;

usingSystem.Web;usingSystem.Web.UI;

usingSystem.Web.UI.WebControls;usingSystem.Data.SqlClient;namespaceWebApplication1

{

publicpartialclassWebForm2:System.Web.UI.Page

{

protectedvoidPage\_Init(objectsender,EventArgse)

{

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

}

voidBtnSearch\_Click(objectsender,EventArgse){getData();

}

protectedvoidPage\_Load(objectsender,EventArgse)

{}

voidgetData(){

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

stringsource=@"DataSource=Samir\SQLExpress;InitialCatalog=DemoDb;IntegratedSecurity=True;Pooling=False";

stringselect="select\*fromtblstudentwherefnamelike'%"+((Site1)Master).TxtSearch.Text+"%'";

SqlConnectioncon=newSqlConnection(source);SqlCommandcmd=newSqlCommand(select,con);con.Open();

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

con.Close();

}

}

}