# Lab Manual .NET

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VVPEC CE Sem-6

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## **Practical 1**

### AIM:

```
Introduction to C#
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace Program1
{
    class vector
        public int value;
    }
    class Program1
    {
        static int i = 25;
        public enum TimeOfDay
        {
            Morning = 0,
            Afternoon = 1,
            Evening = 2
        }
        static void Main(string[] args)
        {
            Console.WriteLine("This is first program");
            //Scope of variables
            int i=5;
```

```
Console.WriteLine("Scope of the variable {0}",i);
for (i = 0; i < 2; i++)
{
    Console.WriteLine("{0} {1}",i,Program1.i);
}
for (int k = 0; k < 2; k++)
{
    Console.WriteLine("{0}",k);
}
//Constant
const int valueConst=25;
Console.WriteLine("{0}",valueConst);
//valueConst = 15;
const int valueConst2 = 15;
Console.WriteLine("{0}", valueConst2);
//valueConst = valueConst2;
Console.WriteLine("{0}",valueConst);
//Value Type DataTypes
Console.WriteLine("Value Type");
int val1, val2;
val1 = 50;
Console.WriteLine("val1= {0}",val1);
val2 = val1;
Console.WriteLine("val1= {0} val2= {1}", val1,val2);
//Reference Type
Console.WriteLine("Reference Type");
vector x, y;
x = new vector();
x.value = 15;
y = x;
```

```
Console.WriteLine("x = \{0\} y = \{1\}", x.value,y.value);
y.value = 151;
Console.WriteLine("x = \{0\} y = \{1\}", x.value, y.value);
Console.WriteLine("\n Interger Types");
sbyte sb = 22;
short s = 22;
int i1 = 22;
long 1 = 22L;
Console.WriteLine("{0} sbtye\n{1} short\n{2} int\n{3}
 long\n",sb,s,i1,l);
Console.WriteLine("Unsigned Integers");
byte b = 21;
ushort us = 21;
uint ui = 21;
ulong ul = 21;
Console.WriteLine("{0} btye\n{1} ushort\n{2} uint\n{3} ulong\n", b,
 us, ui, ul);
Console.WriteLine("Floating Point");
float f = 11.22334455F;
double d = 11.2233445566778899;
Console.WriteLine("{0} float\n{1} double", f, d);
decimal dec = 111.222333444555666777888999M;
Console.WriteLine("Decimal:\n{0}", dec);
Console.WriteLine("\nBoolean:");
bool valBoolean = true;
Console.WriteLine("Status: " + valBoolean);
Console.WriteLine("\nCharacter:\nSingle Quote \'");
Console.WriteLine("Double Quote \"");
Console.WriteLine("Back Slash \\");
char charA = 'A';
Console.WriteLine(charA);
```

```
int integerA = 2;
Console.WriteLine("Predefined Reference Type");
Object o1 = "This is object 1";
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 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);
Console.WriteLine("Flow control if statement");
bool isZero;
Console.WriteLine("\nFlow Control: (if)\ni is " + i);
if (i == 0)
{
    isZero = true;
    Console.WriteLine("i is Zero");
}
```

```
else
{
    isZero = false;
    Console.WriteLine("i is Non - zero");
}
//else if
Console.WriteLine("\nType in a string:");
string input;
input = Console.ReadLine();
if (input == "")
{
    Console.WriteLine("You typed in an empty string");
}
else if (input.Length < 5)</pre>
{
    Console.WriteLine("The string had less than 5 characters");
}
else if (input.Length < 10)</pre>
{
    Console.WriteLine("The string had at least 5 but less than 10
 characters");
}
Console.WriteLine("The string was " + input);
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]);
    Console.ReadLine();
}
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:
```

```
_ D X
C:\Windows\system32\cmd.exe - P1.exe
F:\>P1.exe
First Program
Scope of Variables.
0 90
1 90
2:
0 1 2
3 2 1 Constants
100 is constant value
Another Constant: 109
Predefined Data Types
Value Types and Reference Types
vali is: 2 and valj is: 2
vali is: 2 and valj is: 90
x is: 3 and y is:3
x is: 234 and y is:234
Integer Types
33 33 33 33 33 33 33
Float and Double:
11.22334 and
11.2233445566779
Decimal:
111.222333444555666777888999
```

```
_ D X
C:\Windows\system32\cmd.exe - P1.exe
Boolean:
Status: True
Character:
Single Quote '
Double Quote "
Back Slash \
Now null:
Hi, I am an Object
-1735802816 System.String
34 System.Int32
False
$1 is: String 1 and s2 is String 1
$1 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
Switch:
integerA = 2
Good morning!
```

## **Practical 2**

AIM:

## **GTUPrograms**

# Program 1:

AIM: 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 Pattern1
{
   class Program
   {
       static void Main(string[] args)
       {
           for (int i = 5; i > 0; i--)
           {
               for (int j = 0; j < i; j++)
               {
```

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

```
C:\Windows\system32\cmd.exe

F:\>C:\Windows\Microsoft.NET\Framework\v3.5\csc Pattern1.cs
Microsoft (R) Uisual C# 2008 Compiler version 3.5.30729.4926
for Microsoft (R) .NET Framework version 3.5
Copyright (C) Microsoft Corporation. All rights reserved.

F:\>Pattern1.exe
@@@@@
@@@@@
@@@@
@@@@
@@@
@@
@@

F:\>
```

# Program 2

AIM: 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 Pattern2
{
    class Program
    {
        static void Main(string[] args)
        {
            String s = Console.ReadLine();
            int value = int.Parse(s);
            for (int i = 1; i <= value; i++)</pre>
            {
                for (int j = 1; j <=i; j++)
                {
                    Console.Write("{0} ",j);
                }
                Console.WriteLine();
```

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

```
C:\Windows\system32\cmd.exe - Pattern2.exe

F:\>C:\Windows\Microsoft.NET\Framework\v3.5\csc Pattern2.cs
Microsoft (R) Uisual C# 2008 Compiler version 3.5.30729.4926
for Microsoft (R) .NET Framework version 3.5
Copyright (C) Microsoft Corporation. All rights reserved.

F:\>Pattern2.exe
10
1
1 2
1 2 3
1 2 3
1 2 3 4 5 6
1 2 3 4 5 6 7
1 2 3 4 5 6 7
1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9 10
```

## Program 3

AIM: 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 PrintNameCountry
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter name");
            String name = Console.ReadLine();
            Console.WriteLine("Enter Country");
            String country = Console.ReadLine();
            Console.WriteLine("Hello {0} from country {1}", name, country);
            Console.ReadKey();
        }
    }
}
```

#### Output:

```
E:\>Country.exe

Enter name

Pritesh

Enter Country

India

Hello Pritesh from country India

E:\>
```

# Program 4

AIM: Create C# console application to define Car class and derive Maruti and Mahindra from it to demonstrate inheritance.

```
this.fuel = fuel;
            this.id = id;
            Console.WriteLine("{0} {1} {2}",this.name, this.fuel, this.id);
        }
    }
    class Mahindra : Car
    {
        internal Mahindra(String name, String fuel, String id)
        {
            this.name = name;
            this.fuel = fuel;
            this.id = id;
            Console.WriteLine("{0} {1} {2}",this.name, this.fuel, this.id);
        }
    }
    class Program
    {
        static void Main(string[] args)
        {
            Maruti obj1= new Maruti("abc", "petrol", "123");
            Mahindra obj2 =new Mahindra("pqr","disel","456");
            Console.ReadKey();
        }
    }
}
Output:
E:\>Inheritence.exe
abc petrol 123
pqr diesel 456
E:\>
```

## **Practical 3**

AIM:

# Overloading

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 MethodOverloading
{
    class Vector
    {
        internal int x, y, z;
        internal Vector(int x, int y, int z)
        {
            this.x = x;
            this.y = y;
            this.z = z;
        }
        internal Vector() { }
    }
    class Matrix
    {
        internal int [,] m = new int[2,2];
        internal Matrix(){}
    }
```

```
class Program
{
    static void add(int a, int b)
    {
        int temp = a + b;
        Console.WriteLine(temp);
    }
    static void add(Vector a, Vector b)
    {
        Vector temp = new Vector();
        temp.x = a.x + b.x;
        temp.y = a.y + b.y;
        temp.z = a.z + b.z;
        Console.WriteLine("{0}x {1}y {2}z", temp.x, temp.y, temp.z);
    }
    static void add(Matrix a, Matrix b)
    {
        Matrix temp = new Matrix();
        for (int i = 0; i < 2; i++)
        {
            for (int j = 0; j < 2; j++)
            {
                temp.m[i, j]=a.m[i,j]+b.m[i,j];
                Console.Write(temp.m[i, j]+"\t");
            }
           Console.Write("\n");
            Console.WriteLine();
        }
    }
```

```
static void Main(string[] args)
        {
            Console.WriteLine("Enter Vector");
            Vector a = new Vector(int.Parse(Console.ReadLine()),
int.Parse(Console.ReadLine()), int.Parse(Console.ReadLine()));
            Vector b = new Vector(int.Parse(Console.ReadLine()),
int.Parse(Console.ReadLine()), int.Parse(Console.ReadLine()));
            add(a, b);
            Console.WriteLine("Enter integer");
            int x = int.Parse(Console.ReadLine());
            int y = int.Parse(Console.ReadLine());
            add(x, y);
           Console.WriteLine("Sum of Matrix is\n");
            Matrix m1 = new Matrix();
            Matrix m2 = new Matrix();
            m1.m[0, 0] = 2;
            m1.m[0, 1] = 2;
            m1.m[1, 0] = 2;
            m1.m[1, 1] = 2;
            m2.m[0, 0] = 3;
            m2.m[0, 1] = 3;
            m2.m[1, 0] = 3;
            m2.m[1, 1] = 3;
            add(m1, m2);
            Console.ReadKey();
        }
    }
}
```

```
C:\Windows\system32\cmd.exe
F:\>C:\Windows\Microsoft.NET\Framework\v3.5\csc MethodOverloading.cs
Microsoft (R) Visual C# 2008 Compiler version 3.5.30729.4926
for Microsoft (R) .NET Framework version 3.5
Copyright (C) Microsoft Corporation. All rights reserved.
F: \ MethodOverloading.exe
Enter Vector
20
10
10
20
10
20x 40y 20z
Enter integer
20
30
Sum of matrix is
        5
5
        5
F : <u>\></u>
```

- 2. Write a c# program that create student object. Overload constror 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 ConstructorOverloading
{
    class Student
    {
        String name,enroll_no,branch;
    }
}
```

}

{

```
public Student(String name)
    {
        this.name = name;
    }
    public Student(String name, String enroll_no)
    {
        this.name = name;
        this.enroll_no = enroll_no;
    }
    public Student(String name, String enroll_no, String branch)
    {
        this.name = name;
        this.enroll_no = enroll_no;
        this.branch = branch;
    }
    internal String getName()
    {
        return this.name;
    }
    internal String getEnroll()
    {
        return this.enroll_no;
    }
    internal String getBranch()
    {
        return this.branch;
    }
class Program
```

```
static void Main(string[] args)
{
    Student s1 = new Student("abc");
    Console.WriteLine(s1.getName());
    Student s2 = new Student("pqr", "16047010459");
    Console.WriteLine(s2.getName());
    Console.WriteLine(s2.getEnroll());
    Student s3 = new Student("xyz", "1604710236", "computer");
    Console.WriteLine(s3.getName());
    Console.WriteLine(s3.getEnroll());
    Console.WriteLine(s3.getBranch());
    Console.ReadKey();
}
```

160470107050 REFLECTION API

# **Practical 4**

AIM:

#### Reflection API

1. Create a c# program to find Methods, Properties and Constructors from class of running program.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Reflection;
namespace Reflection
{
    class Student
    {
        String name, enroll_no, branch;
        public Student(String name)
        {
            this.name = name;
        }
        public Student(String name, String enroll_no)
        {
            this.name = name;
            this.enroll_no = enroll_no;
        }
        public Student(String name, String enroll_no, String branch)
        {
            this.name = name;
```

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```
this.enroll_no = enroll_no;
        this.branch = branch;
    }
    public String getName()
    {
        return this.name;
    }
    public String getEnroll()
        return this.enroll_no;
    }
    public String getBranch()
    {
        return this.branch;
    }
}
class Program
{
    static void Main(string[] args)
    {
        Type t = Type.GetType("Reflection.Student");
        ConstructorInfo[] ci = t.GetConstructors();
        MethodInfo[] mi = t.GetMethods();
        foreach (ConstructorInfo c in ci)
        {
            Console.WriteLine(c.ToString());
        }
        foreach (MethodInfo m in mi)
        {
            Console.WriteLine(m.ToString());
```

160470107050 REFLECTION API

```
}
Console.ReadLine();
}
}
```

```
C:\Windows\system32\cmd.exe

F:\>Reflection.exe

Uoid .ctor(System.String)

Uoid .ctor(System.String, System.String)

Uoid .ctor(System.String, System.String)

System.String getName()

System.String getEnrol1()

System.String getBranch()

System.String ToString()

Boolean Equals(System.Object)

Int32 GetHashCode()

System.Type GetType()
```

## **Practical 5**

AIM:

Perform File Handling.

1. Write a C# program to copy data from one file to another using StreamReader and StreamWriter class.

## Program 1

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.IO;
namespace CopyFile1
{
    class Program
    {
        static void Main(string[] args)
        {
            String file1 = @"F:\file1.txt";
            String file2 = @"F:\file2.txt";
            using (StreamReader reader = new StreamReader(file1))
            {
                using (StreamWriter writer = new StreamWriter(file2))
                {
                    writer.Write(reader.ReadToEnd());
                }
            }
```

```
}
```

#### FILE1:

```
File Edit Format View Help
Hello
Welcome to .NET.
```

## FILE2:

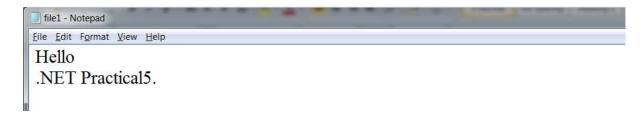
```
File Edit Format View Help
Hello
Welcome to .NET.
```

2. Write a C# Program to Read Lines from a File until the End of File is Reached.

```
Program 2
```

```
using (StreamReader reader = new StreamReader(file1))
{
    using (StreamWriter writer = new StreamWriter(file2))
    {
        while ((content = reader.ReadLine())!= null)
        {
            writer.WriteLine(content);
        }
    }
}
```

### FILE1:



#### FILE3:

```
File Edit Format View Help
Hello
.NET Practical5.
```

3. Write a C# Program to List Files in a Directory.

# Program 3

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

```
using System.IO;
namespace filepractical3
{
    class Program
    {
        static void Main(string[] args)
        {
            String[] Directories = Directory.GetDirectories(@"F:\DotNET");
            foreach (string dir in Directories)
                Console.WriteLine(dir);
            Console.WriteLine("files are :");
            String[] files = Directory.GetFiles(@"F:\DotNET");
            foreach (string file in files)
                Console.WriteLine(file);
                 Console.ReadKey();
        }}}
                                                                      C:\Windows\system32\cmd.exe
 F:\DotNET\Practical5>C:\Windows\Microsoft.NET\Framework\v3.5\csc Program3.cs
                                                                                 Ξ
 Microsoft (R) Visual C# 2008 Compiler version 3.5.30729.4926
 for Microsoft (R) .NET Framework version 3.5
 Copyright (C) Microsoft Corporation. All rights reserved.
 F:\DotNET\Practical5>Program3.exe
 F:\DotNET\P1-master
 F:\DotNET\Practical2
 F:\DotNET\Practical3
 F:\DotNET\Practical4
 F:\DotNET\Practical5
 files are
 F:\DotNET\file1.txt
 F:\DotNET\file2.txt
 F:\DotNET\P1-master.zip
```

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F:\DotNET\Practica15>

160470107050 WindowsForm

#### **Practical 6**

AIM:

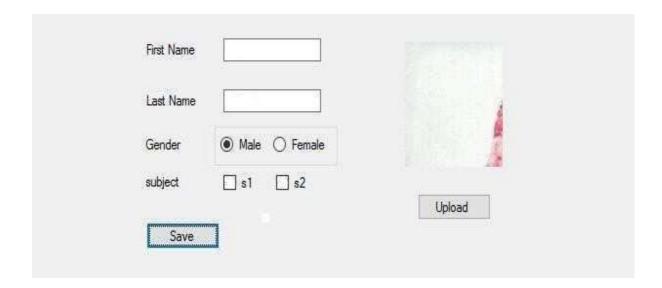
Windows Form Application

1.Create Windows Form Application for Student Registration and store student Details in DataBase.

```
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 WindowsForm1
    public partial class Form1 : Form
        string imgPath; public String gender;
        public Form1()
        {
            InitializeComponent();
        }
        private void Form1_Load(object sender, EventArgs e)
        }
        private void button1_Click(object sender, EventArgs e)
             String source = @"Data Source=CE3COMP3\sqlexpress;Initial
             Catalog=DBstudent;Integrated Security=True;Pooling=False";
             SqlConnection con = new SqlConnection(source);
             con.Open();
             String ins = "insert into Tbl1(fname,Middlename,Lname,gender,Date)
             values('"+fname.Text+"','"+ Middlename.Text+ "','" + Lname.Text +
             "','" +gender+"','"+ dateTimePicker1.Value.Date +"')";
             SqlCommand sc = new SqlCommand(ins, con);
             int i=sc.ExecuteNonQuery();
              if (i > -1)
             {
                   MessageBox.Show("Entered into database");
             }
        }
```

160470107050 WindowsForm

```
private void button3_Click(object sender, EventArgs e)
            openFileDialog1.Filter = "Png|*.png";
            if (openFileDialog1.ShowDialog() == DialogResult.OK)
             imgPath = @"C:\Users\CRP\Desktop\Images\"+
             openFileDialog1.SafeFileName;
             pictureBox.Image = Image.FromFile(openFileDialog1.FileName);
        }
        private void Male_CheckedChanged(object sender, EventArgs e)
            if (Male.Checked)
                gender = "Male";
            }
            else
            {
                gender = "Female";
            }
        }
   }
}
```



#### **Practical 7**

AIM:

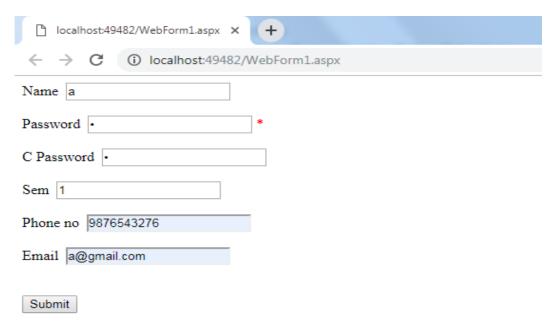
#### **ASP.NET Validation Control**

RequiredFieldValidator
CompareValidator
RegularExpressionValidator
CustomValidator
RangeValidator
ValidationSummary

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"</pre>
Inherits="ASPWebApplication1.WebForm1" %>
<!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>
</head>
<body>
    <form id="form1" runat="server">
    <div>
    </div>
    name
    <asp:TextBox ID="Txtname" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"</pre>
    ControlToValidate="Txtname" ErrorMessage="name is required" ForeColor="Red"
    ToolTip="Please enter name">*</asp:RequiredFieldValidator>
    <br />
       
    <br />
    email<asp:TextBox ID="Txtemail" runat="server"</pre>
        ontextchanged="TextBox1_TextChanged"></asp:TextBox>
   <asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"</pre>
        ControlToValidate="Txtemail" ErrorMessage="not valid email address"
        ForeColor="Red" ToolTip="enter valid email"
       ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-
       .]\w+)*">*</asp:RegularExpressionValidator>
    <br />
    <br />
    phone no<asp:TextBox ID="Txtphone" runat="server"</pre>
        ontextchanged="Txtphone TextChanged"></asp:TextBox>
       <asp:RegularExpressionValidator ID="RegularExpressionValidator2"</pre>
      runat="server" ControlToValidate="Txtphone" ErrorMessage="not valid phone
      no" ForeColor="Red" ToolTip="enter 10 digit mobile no"
      ValidationExpression="[0-9]{10}">*</asp:RegularExpressionValidator>
```

```
<br />
    <br />
    password<asp:TextBox ID="Txtpassword" runat="server"></asp:TextBox>
    <br />
    <br />
    confirm password<asp:TextBox ID="Txtcpasswoed" runat="server"></asp:TextBox>
    <asp:CompareValidator ID="CompareValidator1" runat="server"</pre>
        ControlToCompare="Txtpassword" ControlToValidate="Txtcpasswoed"
        ErrorMessage="confirm password not same as passord"
        ToolTip="not same as password" Type="Integer"></asp:CompareValidator>
    <br />
    <br />
    sem<asp:TextBox ID="Txtsem" runat="server"></asp:TextBox>
    <asp:RangeValidator ID="RangeValidator1" runat="server"</pre>
        ControlToValidate="Txtsem" ErrorMessage="not valid semester"
MaximumValue="8"
        MinimumValue="1"></asp:RangeValidator>
<asp:Button ID="Button1" runat="server" onclick="Button1_Click" Text="submit"/>
    <asp:ValidationSummary ID="ValidationSummary1" runat="server" />
    </form>
</body>
</html>
```

#### **OUTPUT:**



· Password & cpassword must be same

#### **Practical 8**

AIM:

## **Introduction to Master Pages.**

#### Site1.Master

{

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"</pre>
Inherits="ASPApplication2.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>
</head>
<body>
   <form id="form1" runat="server">
    <
       <asp:Label ID="lblheader" runat="server"</pre>
Text="header"></asp:Label>
   >
       <asp:Button ID="Buttonsearch" runat="server" Text="Button" />
       <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
       </asp:ContentPlaceHolder>
       footer
   </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 ASPApplication2
```

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public partial class Site1 : System.Web.UI.MasterPage

```
{
        protected void Page_Load(object sender, EventArgs e)
        }
        public Label LblHeader
            get { return lblheader; }
        }
        public Button buttonsearch
            get { return Buttonsearch; }
    }
}
WebForm1.aspx
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"</pre>
AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="ASPApplication2.WebForm1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"</pre>
runat="server">
    <asp:TextBox ID="txtHeader" runat="server"></asp:TextBox>
  <asp:Button ID="btn1" runat="server" Text="button"</pre>
    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 ASPApplication2
    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 = txtHeader.Text;
    }
```

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}

#### **OUTPUT:**

```
hello
Button hello button
footer
```

#### WebForm2.aspx

#### 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 ASPApplication2
    public partial class WebForm2 : System.Web.UI.Page
        protected void Page_Init(object sender, EventArgs e)
           ((Site1)Master).buttonsearch.Click+=new
EventHandler(buttonsearch Click);
        void buttonsearch_Click(object sender, EventArgs e)
        {
            getData();
        protected void Page_Load(object sender, EventArgs e)
        void getData()
            string source = @"Data Source=CE3COMP3\sqlexpress;Initial
Catalog=DBstudent;Integrated Security=True;Pooling=False";
            string select = "select * from Tbl1";
            SqlConnection conn = new SqlConnection(source);
```

```
SqlCommand cmd = new SqlCommand(select,conn);
conn.Open();
SqlDataReader reader = cmd.ExecuteReader();
getdetails.DataSource = reader;
getdetails.DataBind();
conn.Close();
}

OUTPUT:

ABC

Search

ABC

Set Header
Footer
```

Header

search	
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

## **Practical 9**

AIM:

## Create Web Service of calculator and consume it.

#### WebService1.asmx.cs:

```
using System.Linq;
using System.Web;
using System.Web.Services;
namespace WebApplication6
{
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    // To allow this Web Service to be called from script, using ASP.NET AJAX,
uncomment the following line.
    // [System.Web.Script.Services.ScriptService]
    public class WebService1 : System.Web.Services.WebService
    {
        [WebMethod]
        public string HelloWorld()
            return "Hello World";
        }
```

```
[WebMethod]
        public int Add( int a , int b )
        {
            return a + b;
        }
        [WebMethod]
        public int Sub(int a, int b)
        {
            return a - b;
        }
        [WebMethod]
        public int Mul(int a, int b)
        {
            return a * b;
        }
        [WebMethod]
        public int Div(int a, int b)
        {
            return a / b;
        }
    }
}
```

#### WebService1.aspx:

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"
AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication6.WebForm1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"</pre>
runat="server">
    <asp:Label ID="lblA" runat="server" Height="20px" style="text-align: center"</pre>
    Text="A" Width="130px"></asp:Label>
<br />
<asp:TextBox ID="txtBoxA" runat="server"</pre>
ontextchanged="TextBox1_TextChanged"></asp:TextBox>
<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"</pre>
    ErrorMessage="RequiredFieldValidator"
ControlToValidate="txtBoxA">abc</asp:RequiredFieldValidator>
<asp:Label ID="lblB" runat="server" Height="20px" style="text-align: center"</pre>
    Text="B" Width="126px"></asp:Label>
<asp:TextBox ID="txtBoxB" runat="server"</pre>
ontextchanged="TextBox2 TextChanged"></asp:TextBox>
<asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"</pre>
    ErrorMessage="RequiredFieldValidator"
ControlToValidate="txtBoxB">abc</asp:RequiredFieldValidator>
>
    <asp:Button ID="btnAdd" runat="server" onclick="btnAdd_Click" Text="+" />
    <asp:Button ID="btnSub" runat="server" Text="-" onclick="btnSub_Click"</pre>
        style="width: 18px" />
    <asp:Button ID="btnMul" runat="server" Text="*" onclick="btnMul_Click" />
    <asp:Button ID="btnDiv" runat="server" onclick="Button4_Click" Text="/" />
>
    <asp:Label ID="lblResult" runat="server" Text="Result"></asp:Label>
</asp:Content>
```

#### WebService1.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WebApplication6
```

```
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        WebService1 calc = new WebService1();
        protected void Page_Load(object sender, EventArgs e)
        }
        protected void TextBox2_TextChanged(object sender, EventArgs e)
        {
        }
        protected void TextBox1_TextChanged(object sender, EventArgs e)
        {
        protected void Button4_Click(object sender, EventArgs e)
        {
        protected void btnAdd_Click(object sender, EventArgs e)
        {
            lblResult.Text = calc.Add(Convert.ToInt16(txtBoxA.Text),
Convert.ToInt16(txtBoxB.Text)).ToString();
        }
protected void btnSub_Click(object sender, EventArgs e)
            lblResult.Text = calc.Sub(Convert.ToInt16(txtBoxA.Text),
Convert.ToInt16(txtBoxB.Text)).ToString();
        }
        protected void btnMul_Click(object sender, EventArgs e)
            lblResult.Text = calc.Mul(Convert.ToInt16(txtBoxA.Text),
Convert.ToInt16(txtBoxB.Text)).ToString();
        }
        protected void btnDiv_Click(object sender, EventArgs e)
```

## **OUTPUT**:

