Lab Manual .NET

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VVPEC CE Sem-6

Contents

Introduction to C#	1
GTUPrograms	9
Overloading	16
Reflection API	22
Perform File Handling	25
Windows Form Application	30
ASP.NET Validation Control	
Introduction to Master Pages	35
Introduction to Web Services	

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 I = 22L;
Console.WriteLine("\{0\} sbtye\{1\} short\{2\} int\{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\{1\} ushort\{2\} uint\{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 char A = '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)
{
  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);
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:
```

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

break;

}

}

}
```

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

```
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
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
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.Ling;
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.Ling;
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 \le value; i++)
       {
         for (int j = 1; j <=i; j++)
          {
            Console.Write("{0} ",j);
          Console.WriteLine();
       Console.ReadKey();
```

```
}
}
}
```

```
_ D X
C:\Windows\system32\cmd.exe - Pattern2.exe
F:\>C:\Windows\Microsoft.NET\Framework\v3.5\csc Pattern2.cs
                                                                                Ξ
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 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7
12345678
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.

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

namespace Inheritance
{
    class Car
    {
        protected String name, fuel,id;
    }
    class Maruti: Car
    {
        internal Maruti(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 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();
     }
  }
}
```

```
_ D X
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
        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;

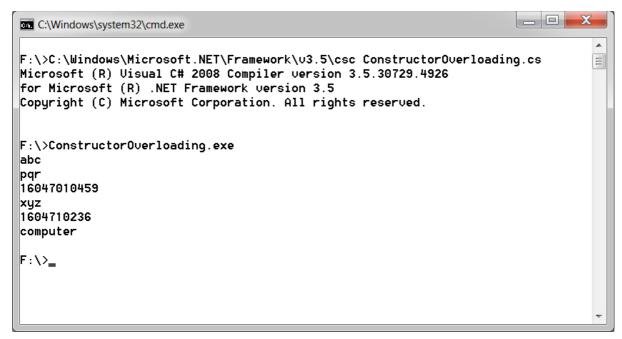
namespace ConstructorOverloading
{
   class Student
   {
     String name,enroll_no,branch;
}
```

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



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

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

F:\>Reflection.exe

Void .ctor(System.String)

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

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

System.String getName()

System.String getEnroll()

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 System.Collections.Generic;
using System.Linq;
using System.Text;
using System.IO;
namespace CopyFile2
{
   class Program
   {
      static void Main(string[] args)
      {
        String file1 = @"F:\file1.txt";
        String content = null;
}
```

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

FILE1:

```
File Edit Format View Help

Hello
.NET Practical5.
```

FILE3:



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
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
F:\DotNET\Practical5>
```

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.Ling;
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";
    }
}
```

160470107050 ASP.NET



Practical 7

AIM:

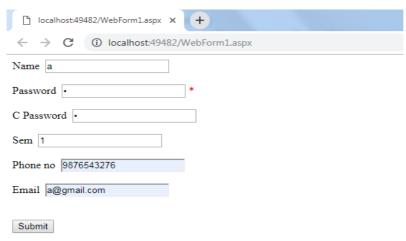
ASP.NET Validation Control

RequiredFieldValidator CompareValidator RegularExpressionValidator CustomValidator RangeValidator ValidationSummary

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"</p>
Inherits="ASPWebApplication1.WebForm1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
  </div>
  <asp:TextBox ID="Txtname" runat="server"></asp:TextBox>
  <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
  ControlToValidate="Txtname" ErrorMessage="name is required" ForeColor="Red"
  ToolTip="Please enter name">*</asp:RequiredFieldValidator>
  <br />
       
  <br />
```

```
email<asp:TextBox ID="Txtemail" runat="server"
    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"
    ontextchanged="Txtphone TextChanged"></asp:TextBox>
      <asp:RegularExpressionValidator ID="RegularExpressionValidator2"
      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"
    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"
    ControlToValidate="Txtsem" ErrorMessage="not valid semester"
MaximumValue="8"
    MinimumValue="1"></asp:RangeValidator>
  <br />
<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"</p>
Inherits="ASPApplication2.Site1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="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" 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.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace ASPApplication2
```

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"</p>
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"
runat="server">
  <asp:TextBox ID="txtHeader" runat="server"></asp:TextBox>
 <asp:Button ID="btn1" runat="server" Text="button"
  onclick="Button1 Click"/>
</asp:Content>
WebForm1.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
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;
    }
```

} }

OUTPUT:

```
hello
Button hello button
```

WebForm2.aspx

WebForm2.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Ling;
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

	100	
search	ABC	Set Header

Footer

Header

	pkstudent	fname	lname	gender	subject	imgStudent
search	18	ABC	gdag	m	s1 s2	IMG-20170326-WA0009.jpg
ABC	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.Ling;
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:

```
ontextchanged="TextBox1 TextChanged"></asp:TextBox>
<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
  ErrorMessage="RequiredFieldValidator"
ControlToValidate="txtBoxA">abc</asp:RequiredFieldValidator>
<br />
<asp:Label ID="lbIB" runat="server" Height="20px" style="text-align: center"</pre>
  Text="B" Width="126px"></asp:Label>
<br />
<asp:TextBox ID="txtBoxB" runat="server"
ontextchanged="TextBox2 TextChanged"></asp:TextBox>
<asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
  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"
     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.Ling;
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)
     {
       lblResult.Text = calc.Div(Convert.ToInt16(txtBoxA.Text),
Convert.ToInt16(txtBoxB.Text)).ToString();
     }
  }
}
```

OUTPUT:

