

LAB MANUAL

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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 I = 22L;
Console.WriteLine("\{0\} sbtye\{1\} short\{2\} int\{3\}
 long\n",sb,s,i1,I);
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);
```

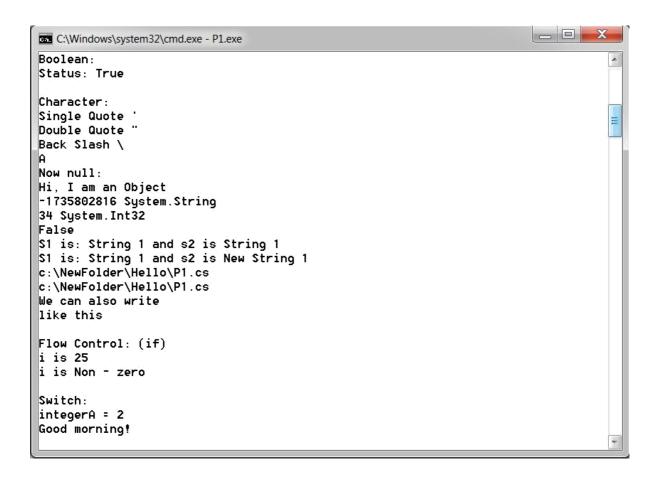
```
int integerA = 2;
Console.WriteLine("Predefined Reference Type");
Object o1 = "This is object 1";
Object o2 = 34;
String strObj = o1 as string;
Console.WriteLine(strObj);
Console.WriteLine(o1.GetHashCode() + " " + o1.GetType());
Console.WriteLine(o2.GetHashCode() + " " + o2.GetType());
Console.WriteLine(o1.Equals(o2));
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)
{
    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.
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
```



Practical 2

AIM:

GTUPrograms

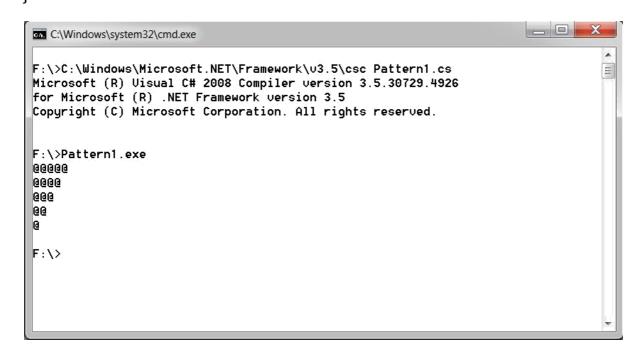
Program 1:

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();
}
}
```



Program 2

AIM: 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;
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();
        }
    }
```

}

```
C:\Windows\system32\cmd.exe - Pattern2.exe
F:\>C:\Windows\Microsoft.NET\Framework\v3.5\csc Pattern2.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:\>Pattern2.exe
1 2
1 2 3
 2 3 4
 2 3 4 5
 2 3 4 5 6
 234567
 2 3 4 5 6 7 8
 23456789
 2 3 4 5 6 7 8 9 10
```

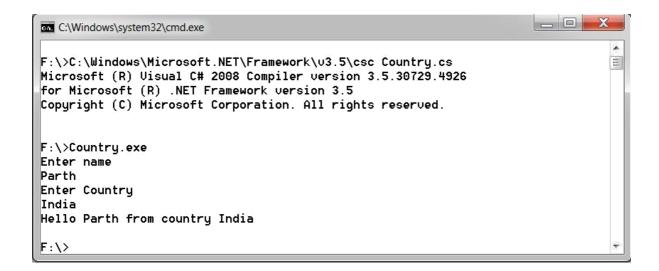
Program 3

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.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();
```



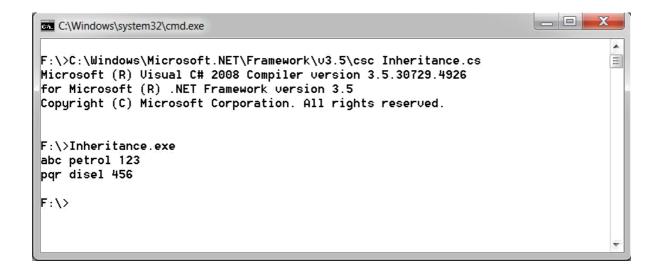
Program 4

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.fue | = 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();
    }
}
```



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
10
20
10
10
20
10
20x 40y 20z
Enter integer
10
20
30
Sum of matrix is
        5
        5
F:\>_
```

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 getEnrol()
    {
        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();
        }
    }
}
```

1704730107007 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;
```

1704730107007 REFLECTION API

```
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());
```

1704730107007 REFLECTION API

```
}
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()
```

1704730107007 FileInputOutput

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());
                }
            }
        }
```

1704730107007 FileInputOutput

```
}
```

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.

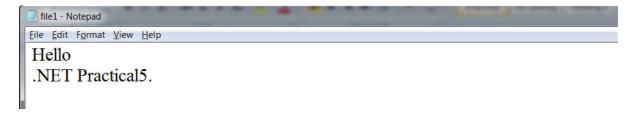
```
Program 2
```

```
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;
        }
}
```

1704730107007 FileInputOutput

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

FILE1:



FILE3:

Program 3

using System.Text;

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

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

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

1704730107007 FileInputOutput
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();
```

}}} _ D X 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>

1704730107007 WindowsForm

Practical 6

AIM:

Windows Form Application

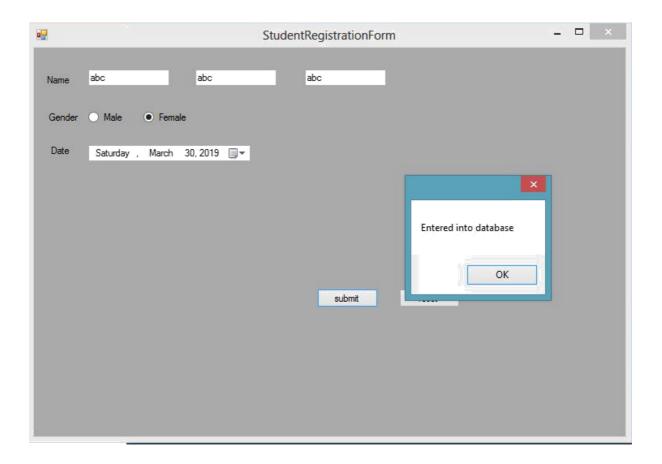
1.Create Windows Form Application for Student Registration and store student Details in DataBase.

```
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");
        }
```

1704730107007 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";
       }
   }
}
```

1704730107007 WindowsForm



Practical 7

AIM:

ASP.NET Validation Control

```
RequiredFieldValidator
CompareValidator
RegularExpressionValidator
CustomValidator
RangeValidator
ValidationSummary
```

```
<%@ Page Language="C#" AutoEventWireup="true"</pre>
CodeBehind="WebForm1_aspx_cs" Inherits="ASPWebApplication1_WebForm1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"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>
    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"</pre>
        runat="server" ControlToValidate="Txtemail" ErrorMessage="not valid email
        address" ForeColor="Red" ToolTip="enter valid email"
        Validation Expression = "\w+([-+.']\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>
    <br />
<asp:Button ID="Button1" runat="server" onclick="Button1_Click"
    Text="submit"/> <br />
    <asp:ValidationSummary ID="ValidationSummary1" runat="server"</pre>
    /> </form>
</body>
</html>
OUTPUT:
 name abc
 emailsd@sd.sdgd
 phone no 456465
 password 123
 confirm password 123
 sem 6
```

not valid phone no

submit

Practical 8

AIM:

Introduction to Master Pages.

Site1.Master

```
Master Language="C#" AutoEventWireup="true"
CodeBehind="Site1.master.cs" 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="IbIheader" 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.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"
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"</pre>
    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
footer

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();
}

}
```

ABC

OUTPUT:

|--|

ABC

Set Header

Footer

Header

search	
Α	

pkstudent	fname	lname	gender	subject	imgStudent
22	ABC	AAA	f	s1	IMG-20170326-WA0009.jpg

Footer

1704730107007 Web Service Form

Practical 9

AIM: Web Services Program 1 Create web service & consume it WebService1.asmx.cs: using System; using System.Collections.Generic; using System.Ling; using System.Web; using System.Web.Services; namespace Service { [WebService(Namespace = "http://tempuri.org/")] [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)] [System.ComponentModel.ToolboxItem(false)] 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] { return a - b; } [WebMethod] public int Sub(int a, int b) public int Mul(int a, int b) { return a * b; } [WebMethod] public int Div(int a, int b) { return a / b;

1704730107007 Web ServiceForm

WebForm1.aspx:

</html>

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="WebService.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>
<asp:TextBox ID="txtA" runat="server"></asp:TextBox> <asp:RequiredFieldValidator
ID="RequiredFieldValidator1" runat="server" ControlToValidate="txtA"
ErrorMessage="RequiredFieldValidator">
</asp:RequiredFieldValidator>
<asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server"</p>
ControlToValidate="txtA" ErrorMessage="RegularExpressionValidator"
ValidationExpression="^[0-9]+">
</asp:RegularExpressionValidator>
<br />
<asp:TextBox ID="txtB" runat="server"></asp:TextBox> <asp:RequiredFieldValidator</p>
ID="RequiredFieldValidator2" runat="server" ControlToValidate="txtB"
ErrorMessage="RequiredFieldValidator">
</asp:RequiredFieldValidator> <asp:RegularExpressionValidator
ID="RegularExpressionValidator1" runat="server" ControlToValidate="txtB"
ErrorMessage="RegularExpressionValidator" ValidationExpression="^[0-
9]+"></asp:RegularExpressionValidator>
<asp:Button ID="btnadd" runat="server" onclick="btnadd Click" Text="Add" />
<asp:Button ID="btnsub" runat="server" onclick="btnsub_Click" Text="Sub" />
<asp:Button ID="btnmul" runat="server" onclick="btnmul_Click" Text="Mul" />
<asp:Button ID="btndiv" runat="server" onclick="btndiv Click" Text="Div" /> <br />
<asp:Label ID="lblresult" runat="server" Text="Result">
</asp:Label>
</div>
</form>
</body>
```

1704730107007 Web Service Form

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 WebService { public partial class WebForm1 : System.Web.UI.Page { localhost.WebService1 calc = new localhost.WebService1(); protected void Page Load(object sender, EventArgs e) { } protected void btnadd_Click(object sender, EventArgs e) lblresult.Text = calc.Add(Convert.ToInt16(txtA.Text), Convert.ToInt16(txtB.Text)).ToString(); } protected void btnsub_Click(object sender, EventArgs e) lblresult.Text = calc.Sub(Convert.ToInt16(txtA.Text), Convert.ToInt16(txtB.Text)).ToString(); } protected void btnmul Click(object sender, EventArgs e) { lblresult.Text = calc.Mul(Convert.ToInt16(txtA.Text), Convert.ToInt16(txtB.Text)).ToString(); } protected void btndiv Click(object sender, EventArgs e) { lblresult.Text = calc.Div(Convert.ToInt16(txtA.Text), Convert.ToInt16(txtB.Text)).ToString(); Output:



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