

## PRACTICAL NO.2

A. AIM: Create simple application to perform following operations.

(i) Finding factorial value.

CODE:

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

namespace practical2
{
    class fact
    {
        public int n, f;
        public fact()
        {
            f = 1;
        }
        public void cal()
        {
            int i;
            for(i=1;i<=n;i++)
            {
                f = f * i;
            }
        }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            fact f1 = new fact();
            f1.n = 5;
            f1.cal();
            Response.Write(f1.n + "!=" + f1.f);
        }
    }
}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="practical2.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <br />
```

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```
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button"
/>
</form>
</body>
</html>
```

**OUTPUT:**

5!=120

Button

## PRACTICAL NO.2

### (ii) Money conversion

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace pra2a2
{
    public class Class1
    {
        public double r, e, d;
        public Class1() {
            r = 0;
            e = 0;
            d = 0;
        }
        public void convertdtor()
        {
            double ev=60;
            r=d*ev;
        }
        public void convertetor()
        {
            double ev = 80;
            r = e * ev;
        }
        public void converttrtod()
        {
            double ev = 65;
            d = r/ ev;
        }
        public void converttrtoe()
        {
            double ev = 80;
            e = r / ev;
        }
    }
}
public partial class WebForm1 : System.Web.UI.Page
{
    Class1 f1;
    protected void Page_Load(object sender, EventArgs e)
    {
        f1 = new Class1();
    }
    protected void RadioButton1_CheckedChanged(object sender, EventArgs e)
    {
        if (RadioButton1.Checked == true)
        {
            f1.d = Convert.ToInt16(TextBox1.Text);
        }
    }
}
```

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```
f1.converttdtor();
Response.Write(f1.d + "Dollar" + "=Rs" + f1.r);
}
}
protected void RadioButton2_CheckedChanged(object sender, EventArgs e)
{
    if (RadioButton2.Checked == true)
    {
        f1.r = Convert.ToInt16(TextBox1.Text);
        f1.converttrtod();
        Response.Write(f1.r + "Rupee" + "=$" + f1.d);
    }
}
protected void RadioButton3_CheckedChanged(object sender, EventArgs e)
{
    if (RadioButton3.Checked == true)
    {
        f1.e = Convert.ToInt16(TextBox1.Text);
        f1.convertetor();
        Response.Write(f1.e + "Euro" + "=Rs" + f1.r);
    }
}
protected void RadioButton4_CheckedChanged(object sender, EventArgs e)
{
    if (RadioButton4.Checked == true)
    {
        f1.r = Convert.ToInt16(TextBox1.Text);
        f1.converttrtoe();
        Response.Write(f1.r + "Rs. to Euro" + f1.e);
    }
}
}
}
```

### SOURCE CODE:

src File:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2a2.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<div>
```

```
<asp:TextBox ID="TextBox1" runat="server" ></asp:TextBox>
```

```
<asp:RadioButton ID="RadioButton1" runat="server"
```

```
OnCheckedChanged="RadioButton1_CheckedChanged" Text="Doller To Rupee" />
```

```
<asp:RadioButton ID="RadioButton2" runat="server"
```

```
OnCheckedChanged="RadioButton2_CheckedChanged" Text="Rupee To Doller" />
```

## PRACTICAL NO.2

```
<asp:RadioButton ID="RadioButton3" runat="server"
OnCheckedChanged="RadioButton3_CheckedChanged" Text="Euro To Rupee" />
<asp:RadioButton ID="RadioButton4" runat="server"
OnCheckedChanged="RadioButton4_CheckedChanged" Text="Rupee To Euro" />
</div>
</form>
</body>
</html>
```

### OUTPUT:

90Rupee=\$1.38461538461538

☐ Doller To Rupee ☒ Rupee To Doller ☐ Euro To Rupee ☐ Rupee To Euro

**(iii) Quadratic equation**

**CODE:**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace pra2aQE
{
    class Quadraticroots
    {
        public double a,b,c,r1,r2;
        public double compute()
        {
            int m;
            double d1;
            d1 = b * b - 4 * a * c;
            if (d1 == 0)
            {
                r1 = r2 = (-b) / (2 * a);
                return d1;
            }
            else if (d1 > 0) {
                r1 = (-b + Math.Sqrt(d1)) / (2 * a);
                r2 = (-b - Math.Sqrt(d1)) / (2 * a);
                return d1;
            }
            else
            {
                r1 = (-b)/(2 * a);
                r2 = Math.Sqrt(-d1)/(2*a);
                return d1;
            }
        }
    }
}

public partial class WebForm1 : System.Web.UI.Page
{
    Quadraticroots q;
    protected void Page_Load(object sender, EventArgs e)
    {
        q = new Quadraticroots();
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        q.a = Convert.ToInt16(TextBox1.Text);
        q.b = Convert.ToInt16(TextBox2.Text);
        q.c = Convert.ToInt16(TextBox3.Text);
        double d = q.compute();
        if (d == 0)
        {
            Response.Write("\n Roots are Real and Distinct<br>");
            Response.Write("\n First Root is "+ q.r1+ "<br>");
        }
    }
}
```

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```
        else if (d > 0)
        {
            Response.Write("\n Roots are Real and Distinct<br>");
            Response.Write("\n First Root is " + q.r1 + "<br>");
            Response.Write("\n Second Root is " + q.r2 + "<br>");
        }
        else
        {
            Response.Write("\n Roots are Imaginary<br>");
            Response.Write("\n First Root is " + q.r1 + "<br>");
            Response.Write("\n Second Root is " + q.r2 + "<br>");
        }
    }
}
```

### SOURCE CODE:

src File:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2aQE.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<div style="height: 67px">
```

```
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
```

```
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
```

```
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
```

```
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

### OUTPUT:

Roots are Imaginary

First Root is -1

Second Root is 1.73205080756888

<input type="text" value="2"/>	<input type="text" value="4"/>	<input type="text" value="8"/>	<input type="button" value="Button"/>
--------------------------------	--------------------------------	--------------------------------	---------------------------------------

## PRACTICAL NO.2

### (iv) Temperature Conversion.

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.ConstrainedExecution;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace _2b
{
    class converttemp
    {
        public float celsius, faren;
        public converttemp()
        {
            celsius = 0;
            faren = 0;
        }
        public void converttofaren()
        {
            faren=((celsius * 9.0f/5.0f) + 32.0f);
        }
        public void converttocel()
        {
            celsius=(faren-32)*(5.0f/9.0f);
        }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        converttemp c;
        protected void Page_Load(object sender, EventArgs e)
        {
            c=new converttemp();
        }

        protected void TextBox2_TextChanged(object sender, EventArgs e)
        {
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            char ch;
            ch = Convert.ToChar(TextBox1.Text);
            if(ch=='c')
            {
                c.celsius=float.Parse(TextBox2.Text);
                c.converttofaren();
                Label1.Text = "Celsius to Farenheit" + c.faren;
            }
            else
            {
                c.faren = float.Parse(TextBox2.Text);
                c.converttocel();
                Label1.Text = "Farenheit to Celsius" + c.celsius;
            }
        }
    }
}
```



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```
    }  
  }  
}
```

### SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"  
Inherits="_2b.WebForm1" %>  
  
<!DOCTYPE html>  
  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
  <title></title>  
</head>  
<body>  
  <form id="form1" runat="server">  
    <div>  
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>  
      <br />  
      <asp:TextBox ID="TextBox2" runat="server"  
OnTextChanged="TextBox2_TextChanged"></asp:TextBox>  
      <br />  
      <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>  
      <br />  
      <asp:Button ID="Button1" runat="server" OnClick="Button1_Click"  
Text="Button" />  
    </div>  
  </form>  
</body>  
</html>
```

### OUTPUT:



The screenshot shows a web form with a light gray border. Inside the form, there are two text boxes stacked vertically. The first text box contains the letter 'c'. The second text box contains the number '100'. Below the text boxes, there is a label that reads 'Celsius to Farenheit212'. At the bottom of the form, there is a button labeled 'Button'.

## PRACTICAL NO.2

**B. AIM: Creating simple application to demonstrate use of the following concepts.**

### (i) Function Overloading

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Reflection.Emit;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace pra2bMO
{
    class overloading
    {
        public int sum(int a, int b) { return a + b; }
        public int sum(int a, int b, int c) { return a + b + c; }
        public float sum(float a, float b) { return a + b; }
        public float sum(float a, float b, float c) { return a + b + c; }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        overloading o;
        protected void Page_Load(object sender, EventArgs e)
        {
            o = new overloading();
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Label1.Text = Convert.ToString(o.sum(10,20));
            Label2.Text = Convert.ToString(o.sum(10, 20,30));
            Label3.Text = Convert.ToString(o.sum(12.0f, 23.1f,32.5f));
        }
    }
}
```

#### SOURCE CODE:

src File:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2bMO.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<div style="height: 0px">
```

```
<asp:Label ID="Label1" runat="server" Text=" "></asp:Label><br />
```

## PRACTICAL NO.2

```
<asp:Label ID="Label2" runat="server" Text=" "></asp:Label><br />
<asp:Label ID="Label3" runat="server" Text=" "></asp:Label><br />
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
<br />
</div>
<p>
    &nbsp;</p>
</form>
</body>
</html>
```

### OUTPUT:

Negative number

Button

-20

## PRACTICAL NO.2

### (ii) Inheritance (all types)

#### → Single Inheritance

##### CODE:

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

namespace pra2b2_1
{
    public class basecc
    {
        public int d;
        public string basemetod()
        {
            string p = "This is baseclass method";
            return p;
        }
    }
    public class Derived : basecc
    {
        public string derivedmethod()
        {
            string s = "This is derivedclassmethod";
            return s;
        }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            basecc b = new basecc();
            Response.Write("Calling from base object:" + b.basemetod());
            Derived d = new Derived();
            Response.Write("<br>Calling from Derived object:<br>" + d.basemetod());
            Response.Write("<br>" + d.derivedmethod());
        }
    }
}
```

##### SOURCE CODE:

```
src File:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2b2_1.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
```

## PRACTICAL NO.2

```
<title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
    </div>
  </form>
</body>
</html>
```

### OUTPUT:

Calling from base object:This is baseclass method  
Calling from Derived object:  
This is baseclass method  
This is derivedclassmethod

Button

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### → Multi-level Inheritance

#### CODE:

```
using System;
using System.Collections.Generic; using System.Linq;
using System.Web; using System.Web.UI;
using System.Web.UI.WebControls; class A
{
    public string show()
    {
        return ("First base class");
    }
}
class B : A
{
    public string display()
    {
        return ("Second base class");
    }
}
class C : B
{
    public string show1()
    {
        return "Child Class";
    }
}
```

```
namespace WebApplication45
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            C obj = new C(); Response.Write(obj.show() + "<br>"); Response.Write(obj.display() + "<br>");
            Response.Write(obj.show1() + "<br>");
        }
    }
}
```

#### SOURCE CODE:

```
src File:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2b2_2.WebForm1" %>

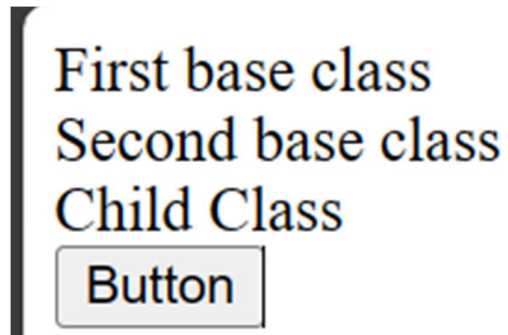
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
```

## PRACTICAL NO.2

```
<body>  
  <form id="form1" runat="server">  
    <div>  
      <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />  
    </div>  
  </form>  
</body>  
</html>
```

### OUTPUT:



## PRACTICAL NO.2

### → Multiple Inheritance

#### CODE:

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

namespace pra2b2_3
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        class Shape
        {
            public int side;
            public void setside(int s)
            {
                side = s;
            }
        }
        public interface Cost
        {
            int getCost(int area);
        }
        class square : Shape, Cost
        {
            public int getArea()
            {
                return (side *side);
            }
            public int getCost(int area) {
                return area * 10;
            }
        }
        protected void Page_Load(object sender, EventArgs e)
        {
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            square sq = new square();
            sq.setside(15);
            int area = sq.getArea();
            Label1.Text = "Area:"+area;
            int c = sq.getCost(area);
            Label2.Text = "Cost is Rs: " + c;
        }
    }
}
```



## PRACTICAL NO.2

### SOURCE CODE:

src File:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2b2_3.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<div>
```

```
<asp:Label ID="Label1" runat="server" Text=" "></asp:Label><br />
```

```
<asp:Label ID="Label2" runat="server" Text=" "></asp:Label><br />
```

```
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

### OUTPUT:

Area:225

Cost is Rs: 2250

Button

## PRACTICAL NO.2

### → Hierarchical Inheritance

#### CODE:

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

namespace pra2b2_4
{
    class A
    {
        public string show()
        {
            return "Welcome ";
        }
    }
    class B : A {
        public string display()
        {
            return "To the World ";
        }
    }
    class C : A {
        public string show1()
        {
            return "Of Programming";
        }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            C c1 = new C();
            B b1 = new B();
            string s = "";
            s += c1.show();
            s += b1.display();
            s += c1.show1();
            Label1.Text = s;
        }
    }
}
```

## PRACTICAL NO.2

### SOURCE CODE:

src File:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2b2_4.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body style="height: 78px">
```

```
<form id="form1" runat="server">
```

```
<div style="height: 75px">
```

```
<asp:Label ID="Label1" runat="server" Text=" "></asp:Label><br />
```

```
<asp:Button ID="Button1" runat="server" Text="Button" OnClick="Button1_Click" />
```

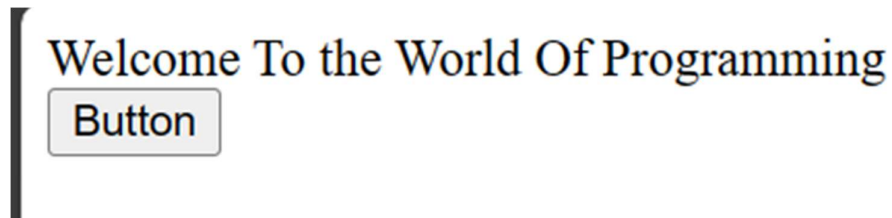
```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

### OUTPUT:



## PRACTICAL NO.2

### (iii) Constructor Overloading

#### CODE:

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

namespace pra2b3
{
    class MarkSheet
    {
        private float m1, m2, m3;
        string name;
        public MarkSheet()
        {
            m1 = 20;
            m2 = 40;
            m3 = 40;
        }
        public MarkSheet(float ms)
        {
            m1 = ms;
        }
        public MarkSheet(float ms1, float ms2)
        {
            m1 = ms1;
            m2 = ms2;
        }
        public MarkSheet(float ms1, float ms2, float ms3)
        {
            m1 = ms1;
            m2 = ms2;
            m3 = ms3;
        }
        public float tot()
        {
            float t = m1 + m2 + m3;
            return t;
        }
    }
}

public partial class WebForm1 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        MarkSheet a = new MarkSheet();
        MarkSheet b = new MarkSheet(87);
        MarkSheet c = new MarkSheet(88, 60);
        MarkSheet d = new MarkSheet(70, 90, 55);
        Response.Write("In marksheet 1:");
        Response.Write(a.tot() + "<br>");
    }
}
```

## PRACTICAL NO.2

```
        Response.Write("In marksheet 2:");  
        Response.Write(b.tot() + "<br>");  
        Response.Write("In marksheet 3:");  
        Response.Write(c.tot() + "<br>");  
        Response.Write("In marksheet 4:");  
        Response.Write(d.tot() + "<br>");  
    }  
}
```

### SOURCE CODE:

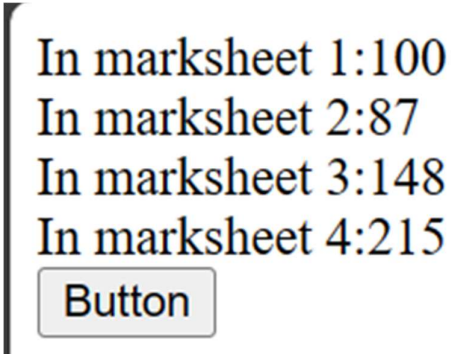
src File:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"  
Inherits="pra2b3.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">  
<head runat="server">  
    <title></title>  
</head>  
<body>  
    <form id="form1" runat="server">  
        <div>  
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />  
        </div>  
    </form>  
</body>  
</html>
```

### OUTPUT:



The screenshot shows the output of the web application. It displays four lines of text, each representing a marksheet entry with a total score. Below the text is a button labeled "Button".

Marksheet	Total
1	100
2	87
3	148
4	215

Button

## PRACTICAL NO.2

### (iv) Interface

#### CODE:

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

namespace pra2b4
{
    public interface ITransactions {
        string retcode();
        double amtfunc();
    }
    public class Transaction : ITransactions
    {
        private string tCode;
        private double amount;
        public Transaction()
        {
            tCode = " ";
            amount = 0.0;
        }
        public Transaction(string c, double a)
        {
            tCode = c;
            amount = a;
        }
        public double amtfunc()
        {
            return amount;
        }
        public string retcode()
        {
            return tCode;
        }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Transaction t1 = new Transaction("Cr",780.00);
            Transaction t2 = new Transaction("Db", 400.00);
            Response.Write("<br>Code" + t1.retcode());
            Response.Write("<br>Amount" + t1.amtfunc());
            Response.Write("<br>Code" + t2.retcode());
            Response.Write("<br>Amount" + t2.amtfunc());
        }
    }
}
```

## PRACTICAL NO.2

### SOURCE CODE:

src File:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2b4.WebForm1" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<div>
```

```
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
```

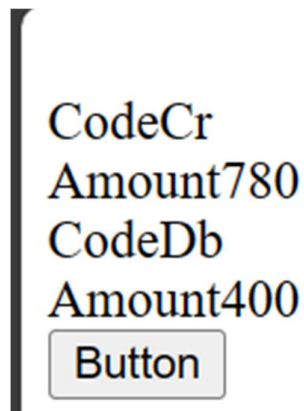
```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

### OUTPUT:



## PRACTICAL NO.2

### B. AIM: Creating simple application to demonstrate use of the following concepts.

#### (i) Using Delegates and events

##### CODE:

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

namespace pra2c1
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        public delegate void SimpleDelegate();
        public void callingFunction()
        {
            Response.Write("First Function Called....<br>");
        }
        public void secfunction()
        {
            Response.Write("Second Function Called....<br>");
        }
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            SimpleDelegate sd = new SimpleDelegate(callingFunction);
            sd();
            sd += new SimpleDelegate(secfunction);
            sd();
        }
    }
}
```

##### SOURCE CODE:

```
src File:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2c1.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
        <div>
            </div>
    </form>
```



## PRACTICAL NO.2

```
</body>  
</html>
```

### OUTPUT:

First Function Called....  
First Function Called....  
Second Function Called....

Button

## PRACTICAL NO.2

### (i) Exception Handling

#### CODE:

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

namespace pra2c2
{
    class NegativeException : Exception
    {
        public NegativeException(string msg)
            : base(msg)
        {
        }
    }
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            int num;
            try
            {
                num = int.Parse(TextBox1.Text);
                if (num < 0)
                    throw new NegativeException("Negative number");
                else
                    Console.WriteLine("Positive number");
            }
            catch (NegativeException en)
            {
                Response.Write(en.Message);
            }
        }
    }
}
```

#### SOURCE CODE:

```
src File:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="pra2c2.WebForm1" %>

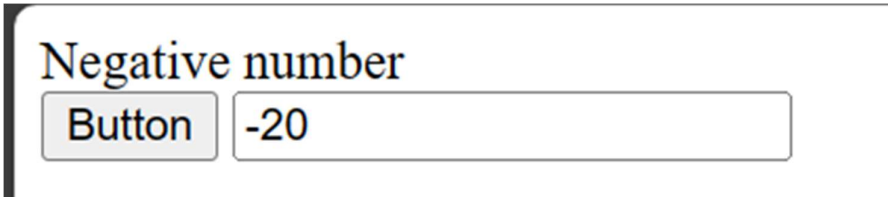
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
```

## PRACTICAL NO.2

```
<body>
  <form id="form1" runat="server">
    <div>
      <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
    </div>
  </form>
</body>
</html>
```

### OUTPUT:



The screenshot displays a web application interface. At the top, the text "Negative number" is shown in a large, blue, serif font. Below this text, there is a horizontal container with a light gray background. Inside this container, on the left, is a button with a light gray background and a thin black border, containing the text "Button" in a bold, black, sans-serif font. To the right of the button is a text box with a light gray background and a thin black border, containing the text "-20" in a black, sans-serif font.