

Aim:- Demonstrate the use of textbox, label and button controls for given windows applications

1. Create an application that allows the user to enter a number in the textbox named 'getnum'. Check whether the number in the textbox 'getnum' is palindrome or not. Print the message accordingly in the label control named lbldisplay when the user clicks on the button 'check'.

Code:

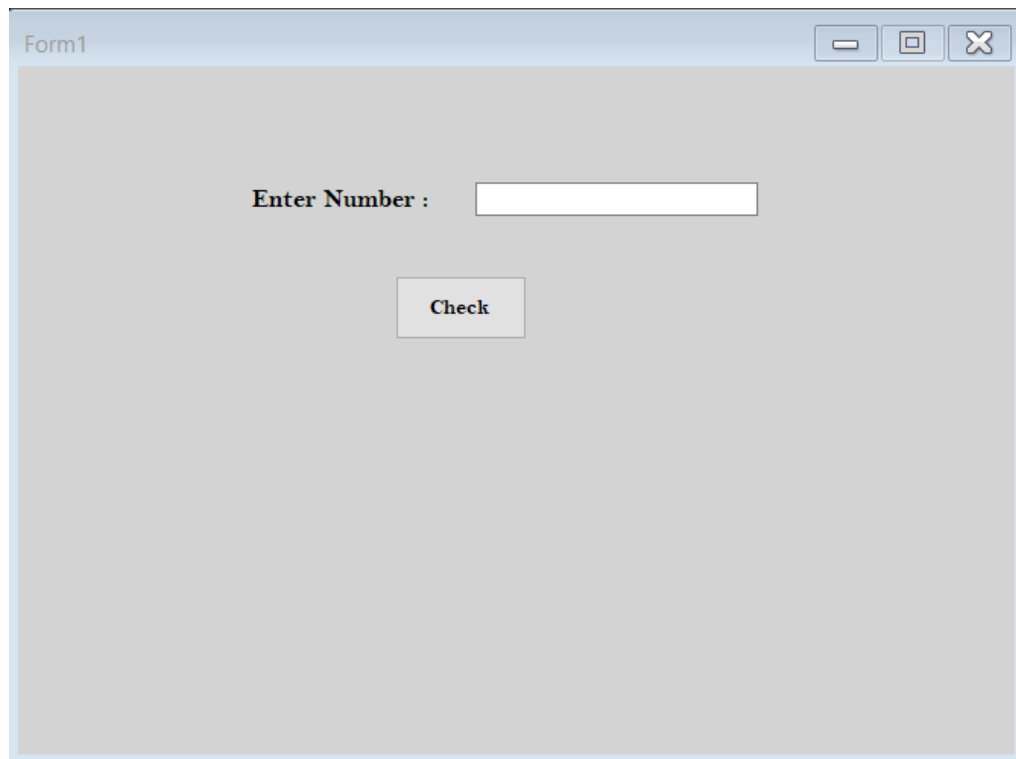
Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WindowsFormsApp2
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            int num = int.Parse(textBox1.Text);
            int a, rev = 0, d;
            a = num;
            while (a > 0) {
                d = a % 10;
```

```
        a = a / 10;
        rev = rev * 10 + d;
    }
    if (rev == num)
    {
        label2.Text = label2.Text + num + " is a palidrome
number";
        label2.Show();
    }
    else
    {
        label2.Text = label2.Text + num + " is not a
palidrome";
        label2.Show();
    }
    //20012011130_Patel Vandan
}
}
```

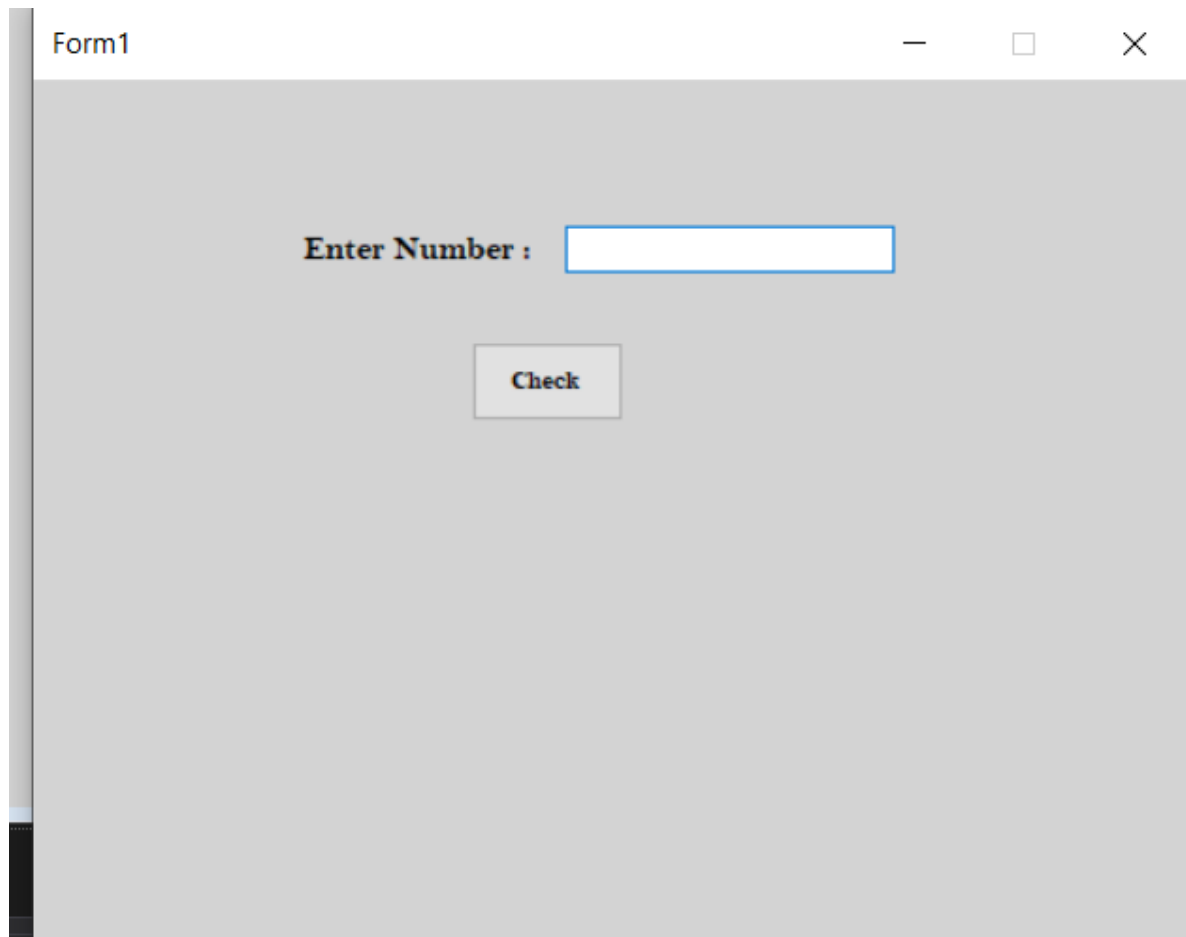


Form1

Enter Number :

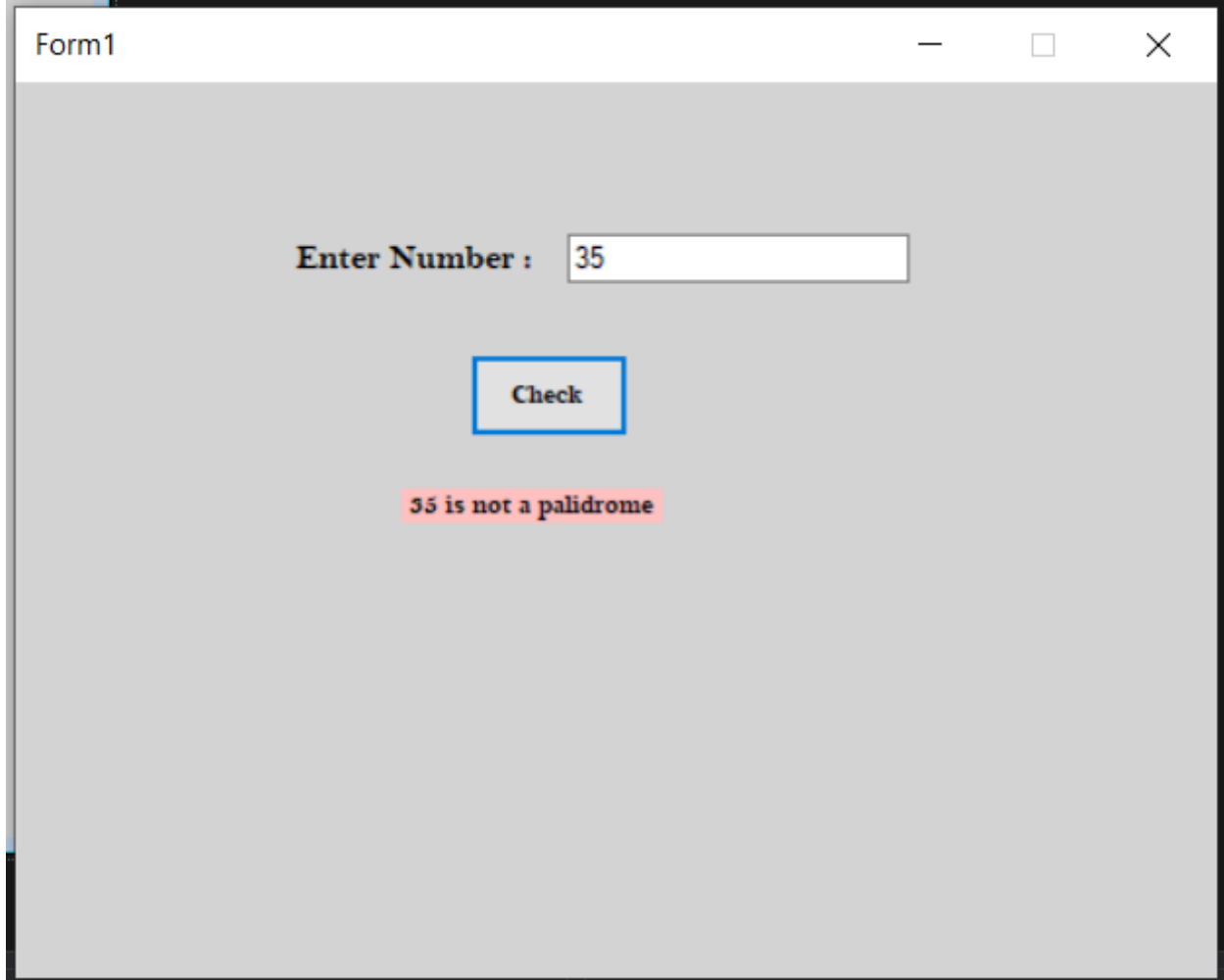
Check

Output:



The image shows a screenshot of a Windows application window titled "Form1". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main area of the form is light gray. In the center, there is a text label "Enter Number :" followed by a white text input field with a blue border. Below the input field is a rectangular button with the text "Check" in bold black font.

The screenshot shows a standard Windows application window titled "Form1". Inside the window, there is a label "Enter Number :" followed by a text input box containing the number "22". Below the input box is a button labeled "Check". Underneath the button, the text "22 is a palidrome number" is displayed in red. The window has a light gray background and standard Windows window controls (minimize, maximize, close) in the title bar.



The screenshot shows a Windows application window titled "Form1". Inside the window, there is a label "Enter Number :", a text box containing the number "35", a button labeled "Check", and a label below the button that says "35 is not a palidrome" in red text.

2.Develop windows form which has two textboxes to enter two numbers(range).
Now find all the armstrong numbers between given range and dispaly all
armstrong numbers in label.

Code:

Form1.cs

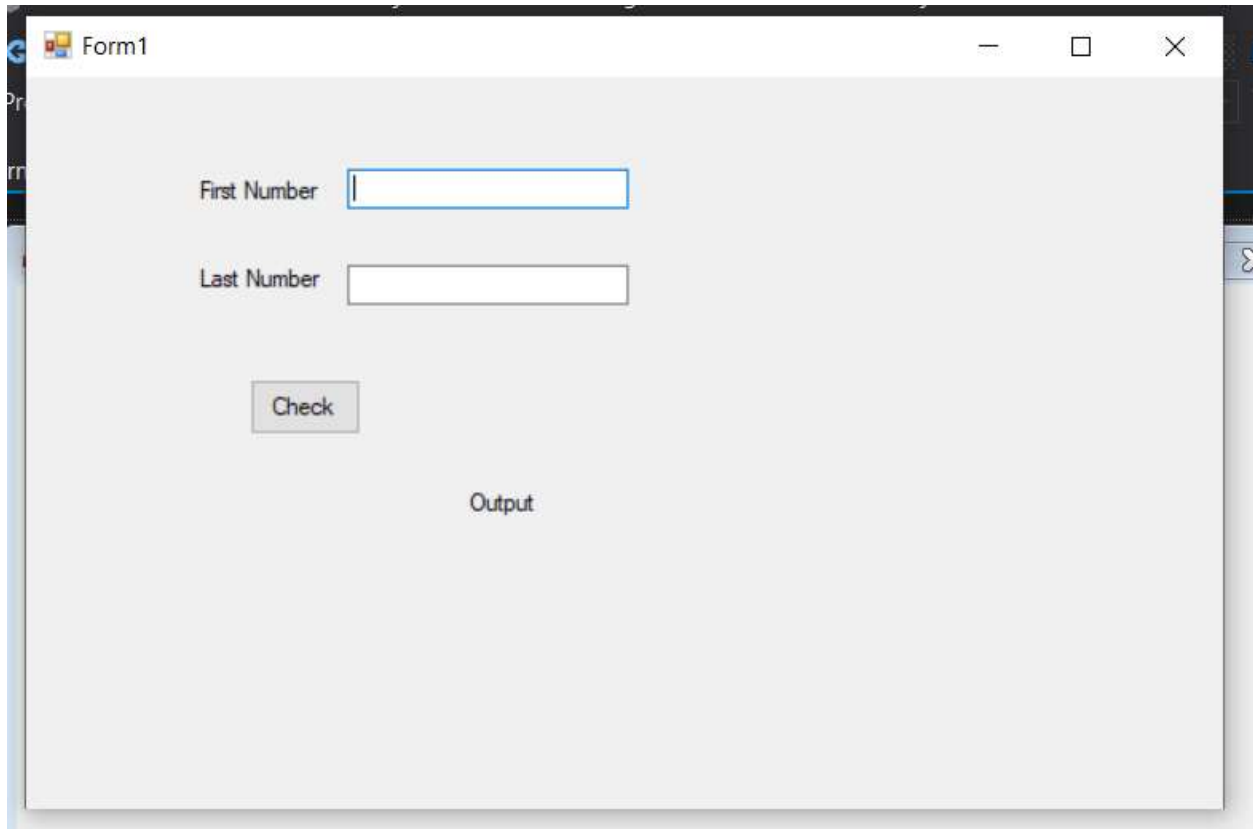
```
using System;
```

```
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

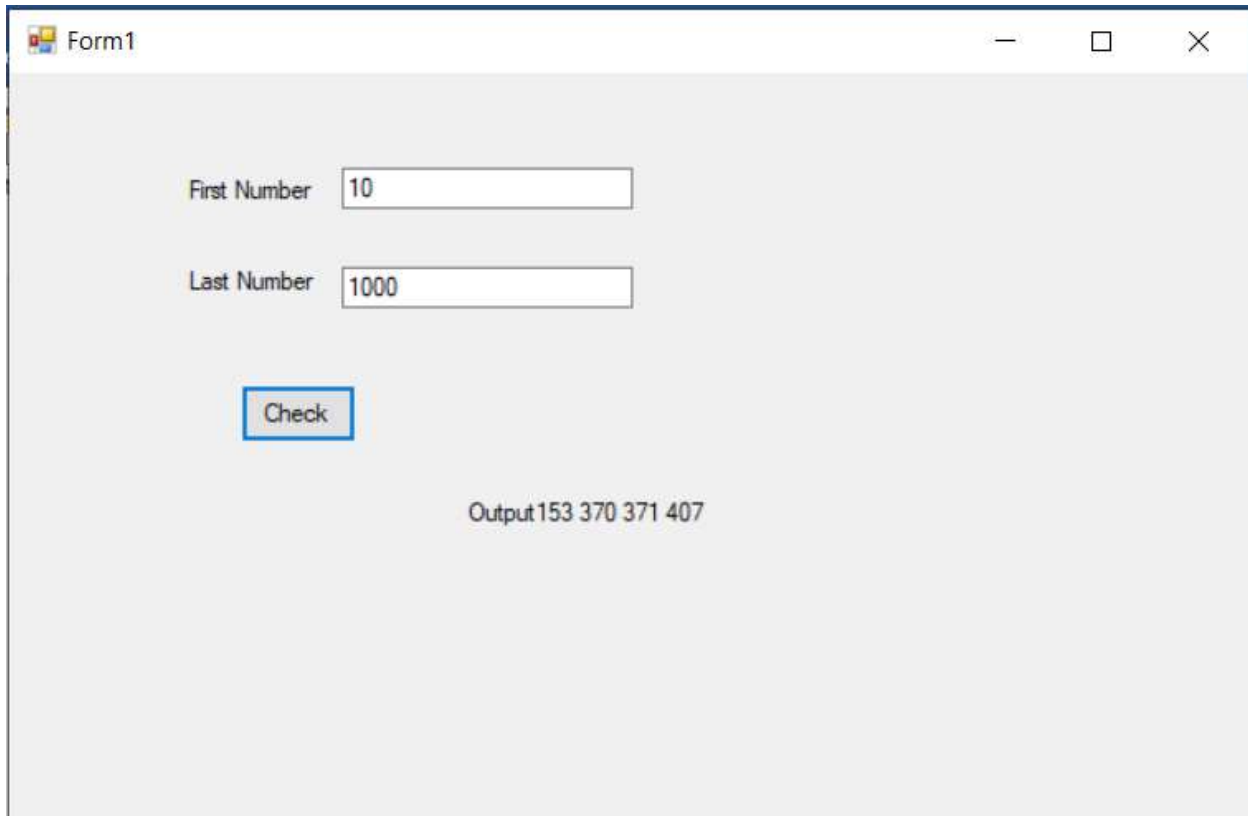
namespace Practical6_2
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            int num1, num2, n, sum, r;
            num1 = int.Parse(textBox1.Text);
            num2 = int.Parse(textBox2.Text);
            for (int i = num1; i <= num2; i++)
            {
                sum = 0;
                n = i;
                while (n != 0)
                {
                    r = n % 10;
                    sum = sum + (r * r * r);
                    n = n / 10;
                }
                if (sum == i)
                {
                    label3.Text = label3.Text + i + " ";
                    label3.Show();
                }
            }
        }
    }
}
```

Output:



The image shows a screenshot of a Windows application window titled "Form1". The window has a standard Windows title bar with minimize, maximize, and close buttons. Inside the window, there is a light gray background. On the left side, there are two labels: "First Number" and "Last Number". To the right of "First Number" is a text input field with a blue border. To the right of "Last Number" is a text input field with a gray border. Below these input fields is a button labeled "Check". Further down and to the right is a label "Output".



Form1

First Number 10

Last Number 1000

Check

Output153 370 371 407

3. Create one form and three textboxes for mobile number, password and confirm password.

Write a c# code for following:

- (i) To validate mobile number
- (ii) To check whether password and confirm password are same or not
- (iii) To check each and every textbox should not be empty

Code:

Form1.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
```

```
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Text.RegularExpressions;

namespace Practical6_3
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

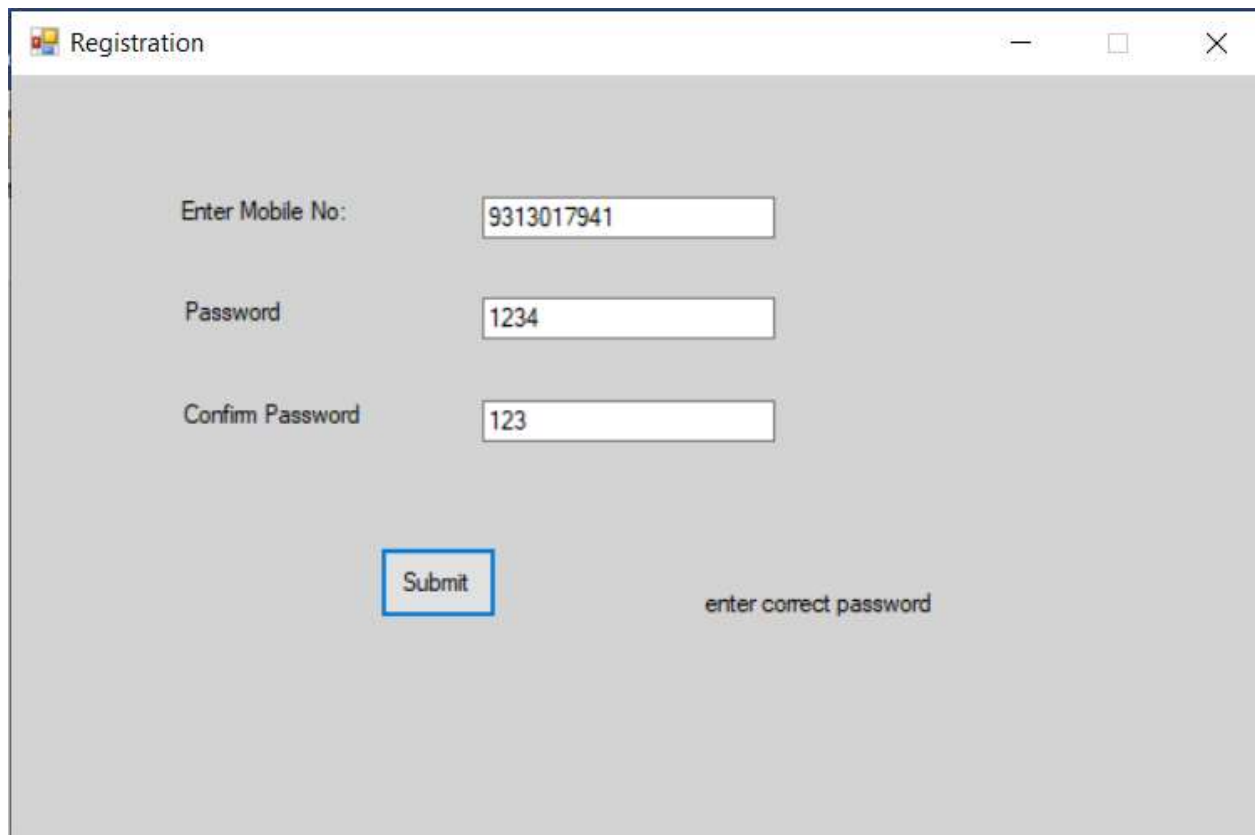
        private void button1_Click(object sender, EventArgs e)
        {
            label4.Visible = false;
            label5.Visible = false;
            Regex rm = new Regex("^[0-9]{10}$");
            Regex rp = new Regex("^(.{6,12}|[^\0-9]|[^\A-Z]|[^\a_z])$");
            string m = textBox1.Text;
            string p = textBox2.Text;
            string cp = textBox3.Text;

            if (textBox1.Text == "" || textBox2.Text == "" ||
textBox3.Text == " ")
            {
                MessageBox.Show("Error");
            }
            else
            {
                if (rm.IsMatch(textBox1.Text.Trim()) == false)
                {
                    label4.Text = "please enter correct number";
                    label4.Visible = true;
                }
                if (textBox2.Text != (textBox3.Text))
                {
                    label5.Text = "enter correct password";
                    label5.Visible = true;
                }
            }
        }
    }
}
```

```
}  
    }  
}
```

Output:

The screenshot shows a Java Swing window titled "Registration" with a light gray background. It contains three text input fields labeled "Enter Mobile No:", "Password", and "Confirm Password". Below these fields is a blue "Submit" button. An "Error" dialog box is open in the bottom right corner, featuring a close button (X) and an "OK" button.



A screenshot of a web application window titled "Registration". The window has a standard title bar with minimize, maximize, and close buttons. The main content area has a light gray background. It contains three input fields with labels to their left: "Enter Mobile No:" with the value "9313017941", "Password" with the value "1234", and "Confirm Password" with the value "123". Below these fields is a blue "Submit" button. To the right of the button, the text "enter correct password" is displayed, indicating a validation error.

Registration

Enter Mobile No: 9313017941

Password 1234

Confirm Password 123

Submit

enter correct password