Practical-6

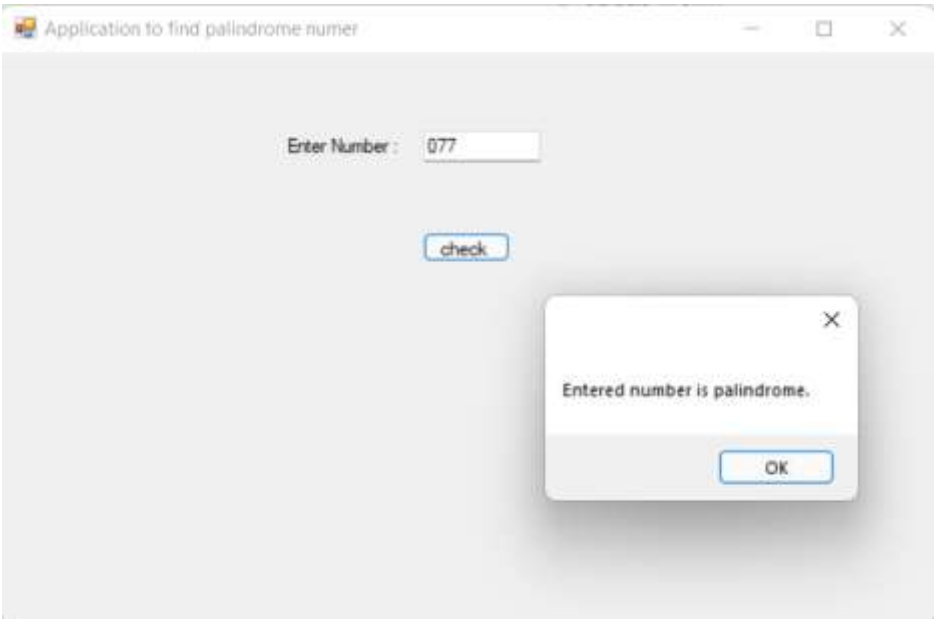
1. Create an application that allows the user to enter a number in the textbox named 'getnum'. Check whether the number in the textbox 'getnum' is palindrome or not. Print the message accordingly in the label control named lbldisplay when the user clicks on the button 'check'

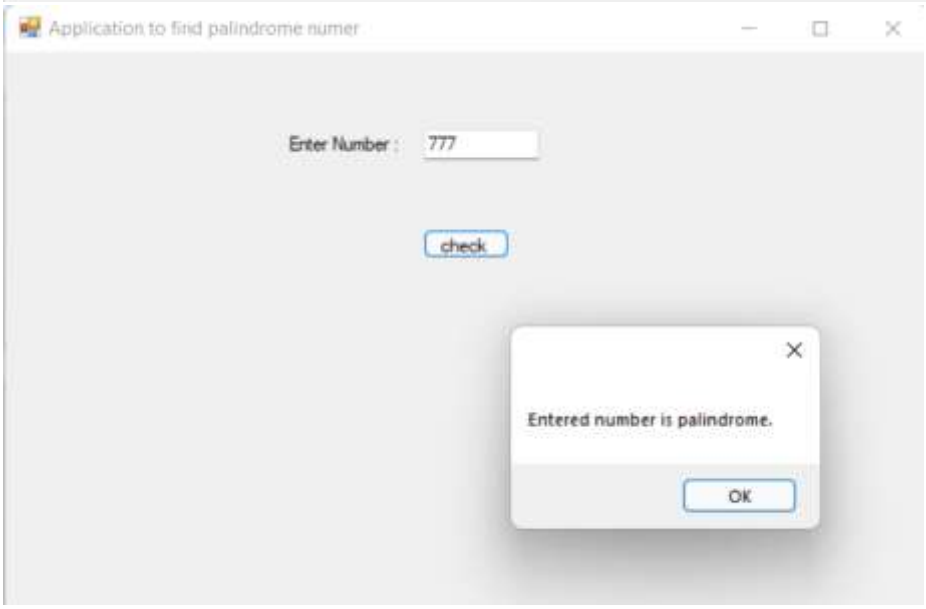
Input:

```
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 pract6_1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {

        }

        private void textBox1_TextChanged(object sender, EventArgs e)
        {

        }

        private void button1_Click(object sender, EventArgs e)
        {
            int a = Convert.ToInt32(textBox1.Text);
            int b = a;
            int sum = 0;
            while (a != 0)
            {
                int s = a % 10;
                sum = sum * 10 + s;
                a = a / 10;

            }
            if (sum == b)
            {
```

```
                MessageBox.Show("Entered number is palindrome.");
            }
            else
            {
                MessageBox.Show("Entered number is not palindrome.");
            }
        }
    }
}
```

Output:





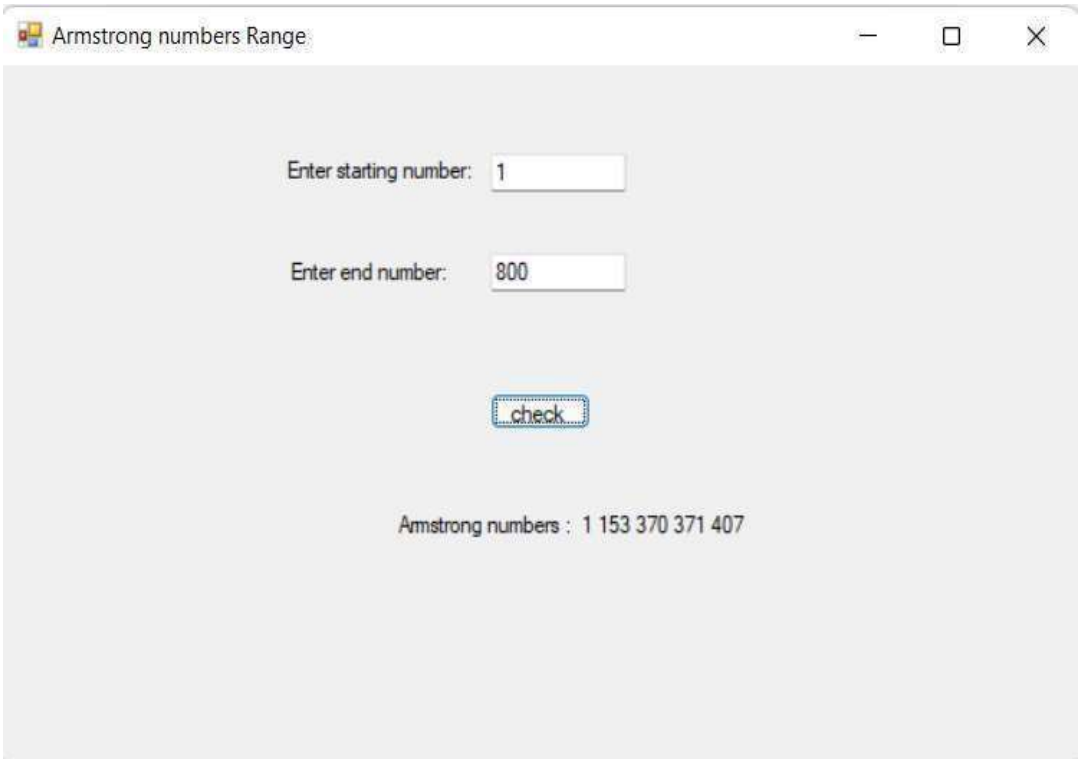
2. Develop windows form which has two textboxes to enter two numbers(range). Now find all the Armstrong numbers between given range and display all Armstrong numbers in label.

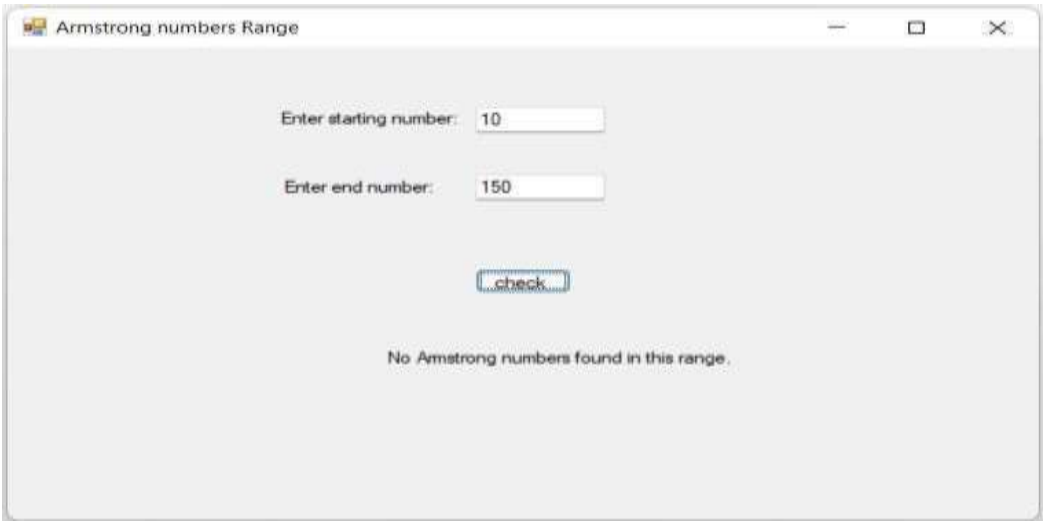
Input:

```
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 pract6_2
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
            label3.Visible = false;
        }
        private void Form1_Load(object sender, EventArgs e)
        {

        }
        private void button1_Click(object sender, EventArgs e)
        {
            string s = "";
            int a = Convert.ToInt32(textBox1.Text);
            int b = Convert.ToInt32(textBox2.Text);

            if (a > b)
            {
                int temp = a;
                a = b;
                b = temp;
            }
            for (int i = a; i <= b; i++)
            {
                int n = i;
                int sum = 0;
                for(; n != 0;)
                {
                    int n1 = n % 10;
                    sum = sum + n1 * n1 * n1;
                    n = n / 10;
                }
                if (sum == i)
                {
                    s = s + " " + i;
```

```
                }
                if (s.Length != 0)
                {
                    label3.Visible = true;
                    label3.Text = "Armstrong numbers : " + s;
                }
                else
                {
                    label3.Visible = true;
                    label3.Text = "No Armstrong numbers found in this range.";
                }
            }
        }
    }
}
```

Output:





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 weather password and confirm password are same or not (iii) To check each and every textbox should not be empty [Note: Use textbox as your input]

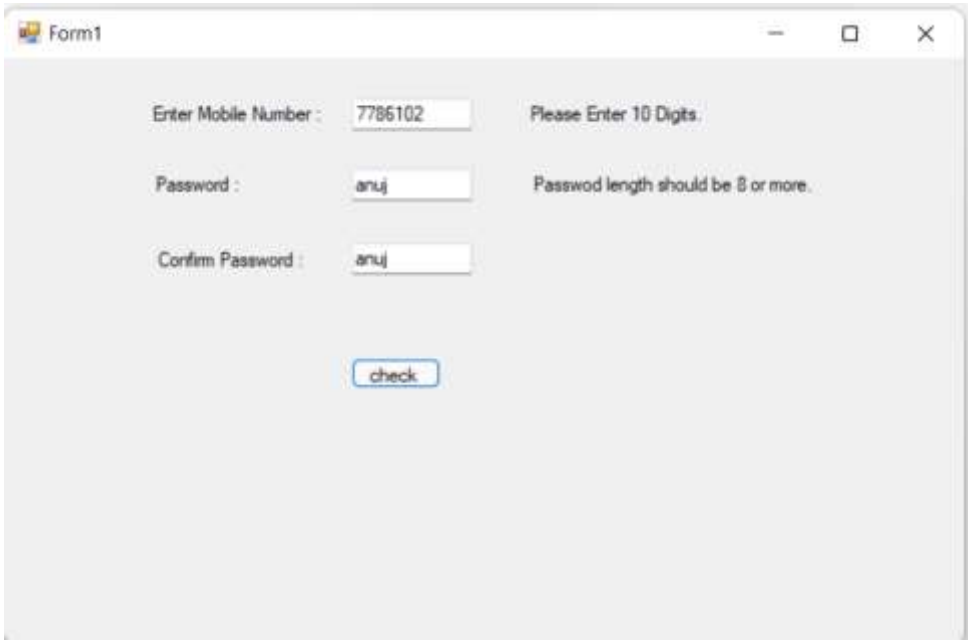
Input:

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

namespace pract6_3
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
            label4.Visible = false;
            label5.Visible = false;
            label6.Visible = false;
        }

        private void Form1_Load(object sender, EventArgs e)
        {
        }
```

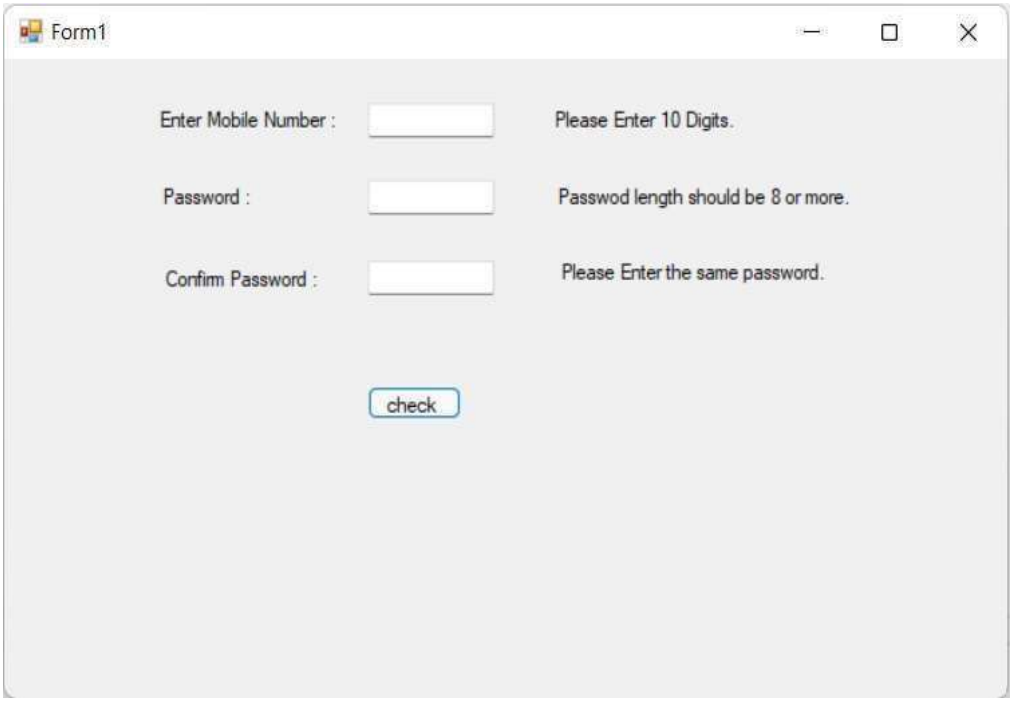
```
        private void button1_Click(object sender, EventArgs e)
        {
            Regex mr = new Regex("[0-9]{10}");
            string m = textBox1.Text;
            string p = textBox2.Text;
            string cp = textBox3.Text;
            if (mr.IsMatch(m) == false)
            {
                label4.Visible = true;
                label4.Text = "Please Enter digits only.";
            }
            if (m.Length != 10)
            {
                label4.Visible = true;
                label4.Text = "Please Enter 10 Digits.";
            }
            if (p.Length < 8)
            {
                label5.Visible = true;
                label5.Text = "Passwod length should be 8 or more.";
            }
            if (p.Equals(cp)==false || cp == "")
            {
                label6.Visible = true;
                label6.Text = "Please Enter the same password.";
            }
        }
    }
}
```

Output:

Invalid values entered



Blank value



Password same or not