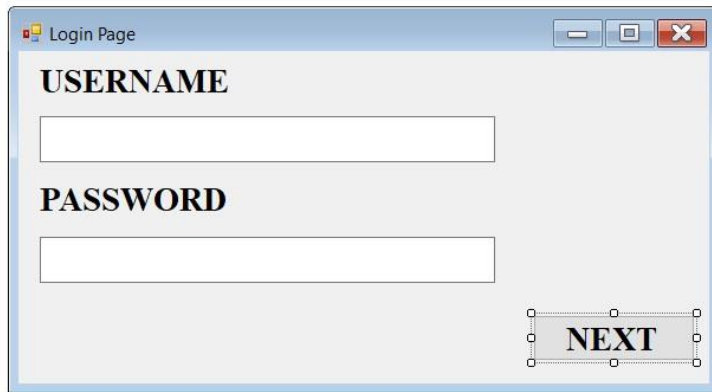


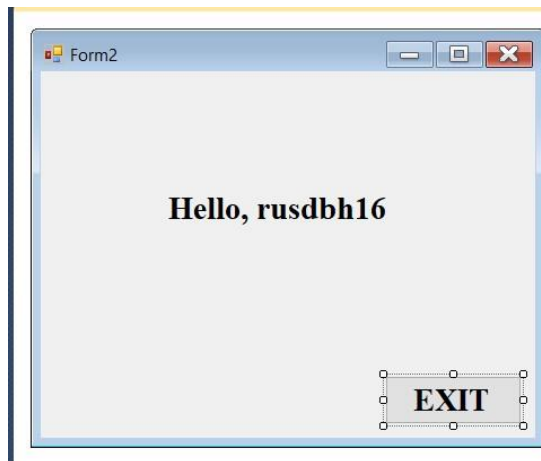
Laborator 2

Problema 1:

Design forme:



The screenshot shows a Windows Form titled "Login Page". It has a light gray background. At the top left, there is a label "USERNAME" in bold black font, followed by a white text box. Below that is a label "PASSWORD" in bold black font, followed by another white text box. At the bottom right, there is a button labeled "NEXT" in bold black font. The form has standard Windows window controls (minimize, maximize, close) at the top right.



The screenshot shows a Windows Form titled "Form2". It has a light gray background. In the center, there is a label "Hello, rusdbh16" in bold black font. At the bottom right, there is a button labeled "EXIT" in bold black font. The form has standard Windows window controls (minimize, maximize, close) at the top right.

Cod prima forma:

```
L2_p1.Form1 Form1_Load(ol
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.IO;

namespace L2_p1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            StreamWriter streamWriter = new StreamWriter("login.txt", true);
            streamWriter.WriteLine("rusdbh16 *****");
            streamWriter.Close();
        }
    }
}
```

```

        StreamReader streamReader = new StreamReader(path: "login.txt");
        {
            string line = string.Empty;
            while ((line = streamReader.ReadLine()) != null)
            {
                string[] array = line.Split(' ');
                textBox1.Text = array[0];
                textBox2.Text = array[1];
            }
        }
    }

    private void button1_Click(object sender, EventArgs e)
    {
        Form2 form2 = new Form2();
        form2.Show();
    }
}

```

Cod a doua forma:

```

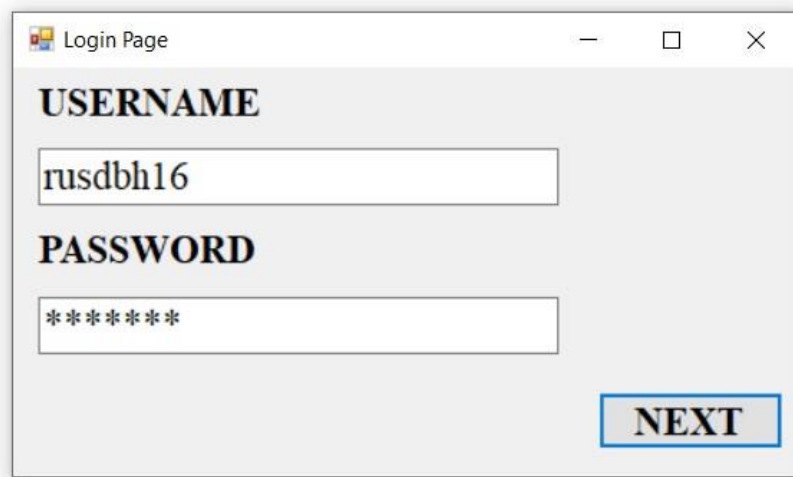
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace L2_p1
{
    public partial class Form2 : Form
    {
        public Form2()
        {
            InitializeComponent();
        }
        private void Form2_Load(object sender, EventArgs e)
        {
        }
        private void button1_Click(object sender, EventArgs e)
        {
            this.Close();
        }
    }
}

```

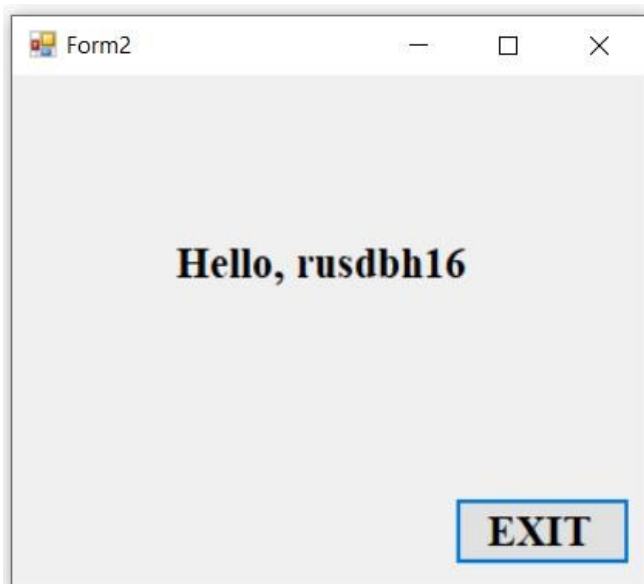
Parcurs prin aplicatie:

Se lanseaza programul in executie



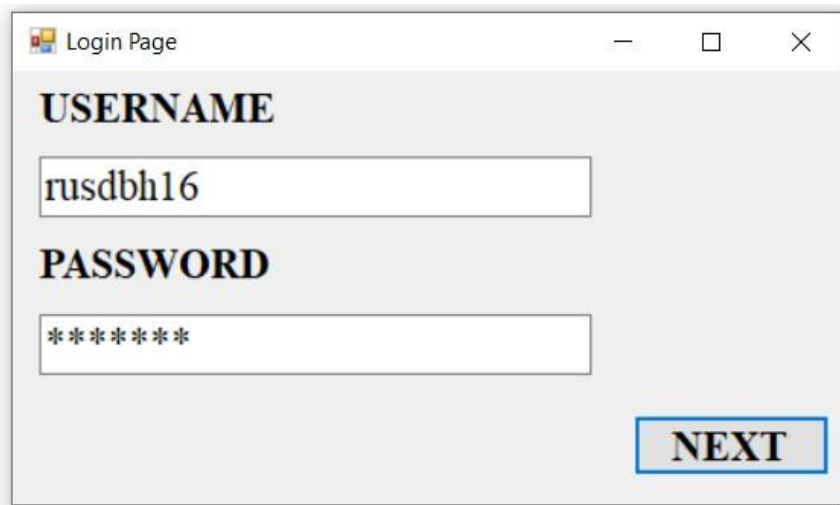
A screenshot of a Windows application window titled "Login Page". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area is light gray. It contains two labels: "USERNAME" and "PASSWORD", both in bold black font. Below "USERNAME" is a text input field containing the text "rusdbh16". Below "PASSWORD" is a text input field containing seven asterisks "*****". In the bottom right corner, there is a blue rectangular button with the text "NEXT" in bold black font.

Se apasa butonul "NEXT"



A screenshot of a Windows application window titled "Form2". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area is light gray. It contains a single line of text in the center: "Hello, rusdbh16" in bold black font. In the bottom right corner, there is a blue rectangular button with the text "EXIT" in bold black font.

Se apasa butonul "EXIT"

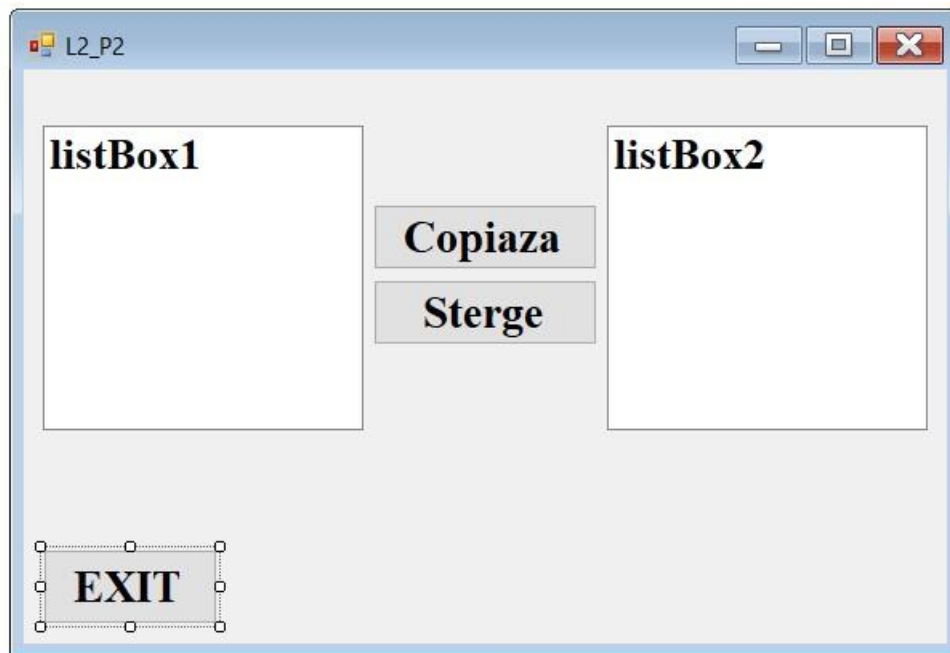


A screenshot of a Windows application window titled "Login Page". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main content area is light gray. It contains two labels: "USERNAME" and "PASSWORD", both in bold black font. Below "USERNAME" is a text input field containing the text "rusdbh16". Below "PASSWORD" is a text input field containing seven asterisks "*****". In the bottom right corner, there is a blue rectangular button with the text "NEXT" in bold black font.

Apasarea butonului "X" va conduce la inchiderea aplicatiei

Problema 2:

Design forma:



Cod forma:

```
L2_p2.Form1
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.IO;

namespace L2_p2
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            StreamWriter streamWriter = new StreamWriter("list.txt", true);
            streamWriter.WriteLine("A B C D E F");
            streamWriter.Close();
        }
    }
}
```

```

        StreamReader streamReader = new StreamReader(path: "list.txt");
        {
            string line = string.Empty;
            while ((line = streamReader.ReadLine()) != null)
            {
                string[] array = line.Split(' ');
                foreach (string arrayElement in array)
                {
                    listBox1.Items.Add(arrayElement);
                }
            }
            streamReader.Close();

            File.WriteAllText("list.txt", string.Empty);
        }

        private void button1_Click(object sender, EventArgs e)
        {
            foreach (object item in listBox1.Items)
            {
                listBox2.Items.Add(item);
            }
        }

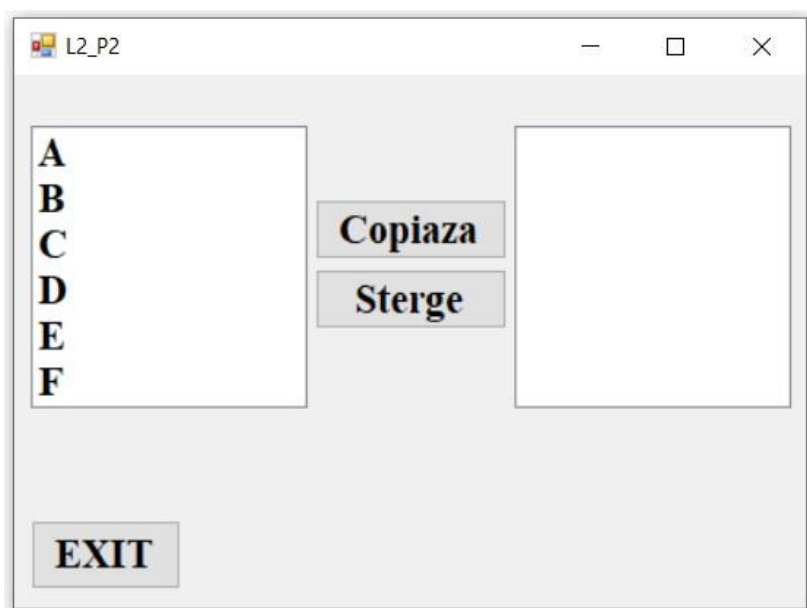
        private void button2_Click(object sender, EventArgs e)
        {
            listBox2.Items.Clear();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            this.Close();
        }
    }
}

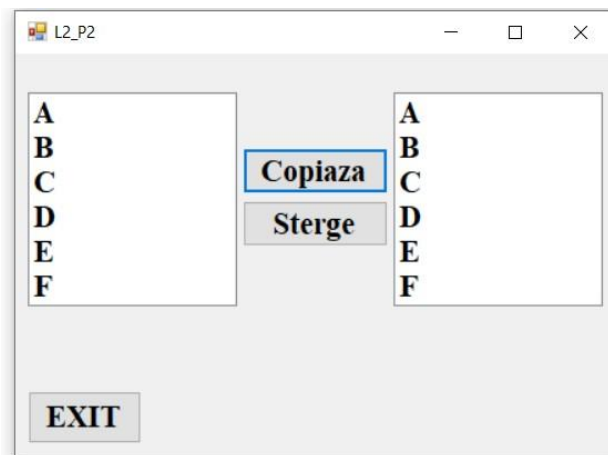
```

Parcurs prin aplicatie:

Se lanseaza programul in executie



Se apasa butonul “Copiază”



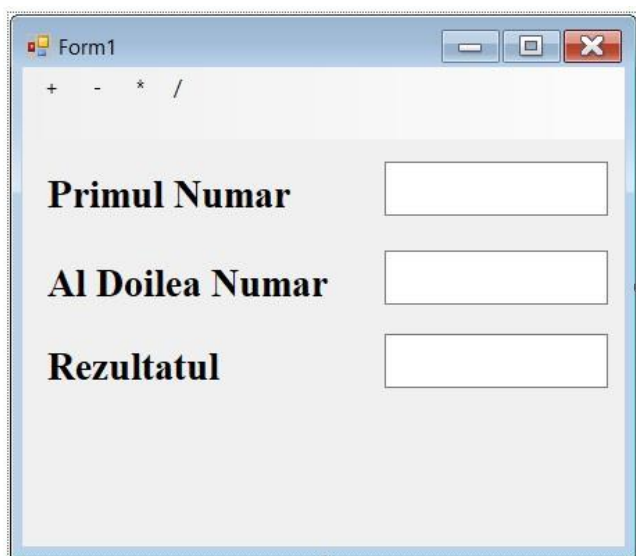
Se apasa butonul “Sterge”



Apasarea butonului “EXIT” va conduce la inchiderea aplicatiei

Problema 3:

Design forma:



Cod forma:

```
L2_p3.Form1 toolStripMenuItem1_Click(object s
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace L2_p3
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void toolStripMenuItem1_Click(object sender, EventArgs e)
        {
            try
            {
                textBox3.Text = (Convert.ToDouble(textBox1.Text) + Convert.ToDouble(textBox2.Text)).ToString();
            }
            catch (Exception ex)
            {
                MessageBox.Show("Operatia nu a putut fi efectuata!");
            }
        }

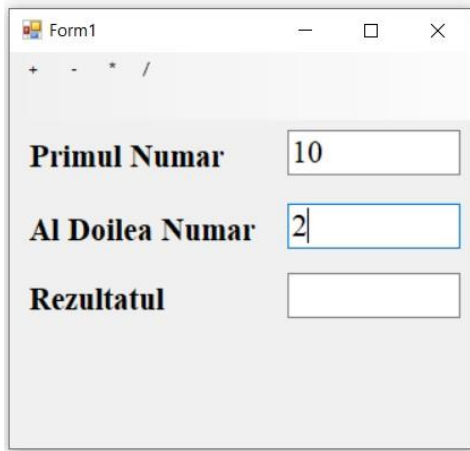
        private void toolStripMenuItem2_Click(object sender, EventArgs e)
        {
            try
            {
                textBox3.Text = (Convert.ToDouble(textBox1.Text) - Convert.ToDouble(textBox2.Text)).ToString();
            }
            catch (Exception ex)
            {
                MessageBox.Show("Operatia nu a putut fi efectuata!");
            }
        }

        private void toolStripMenuItem3_Click(object sender, EventArgs e)
        {
            try
            {
                textBox3.Text = (Convert.ToDouble(textBox1.Text) * Convert.ToDouble(textBox2.Text)).ToString();
            }
            catch (Exception ex)
            {
                MessageBox.Show("Operatia nu a putut fi efectuata!");
            }
        }

        private void toolStripMenuItem4_Click(object sender, EventArgs e)
        {
            try
            {
                textBox3.Text = (Convert.ToDouble(textBox1.Text) / Convert.ToDouble(textBox2.Text)).ToString();
            }
            catch (Exception ex)
            {
                MessageBox.Show("Operatia nu a putut fi efectuata!");
            }
        }
    }
}
```

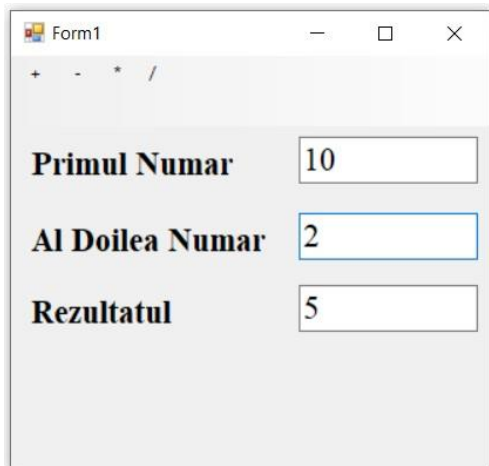
Parcurs prin aplicatie:

Se lanseaza programul in executie si se insereaza numere in cele doua textBox-uri



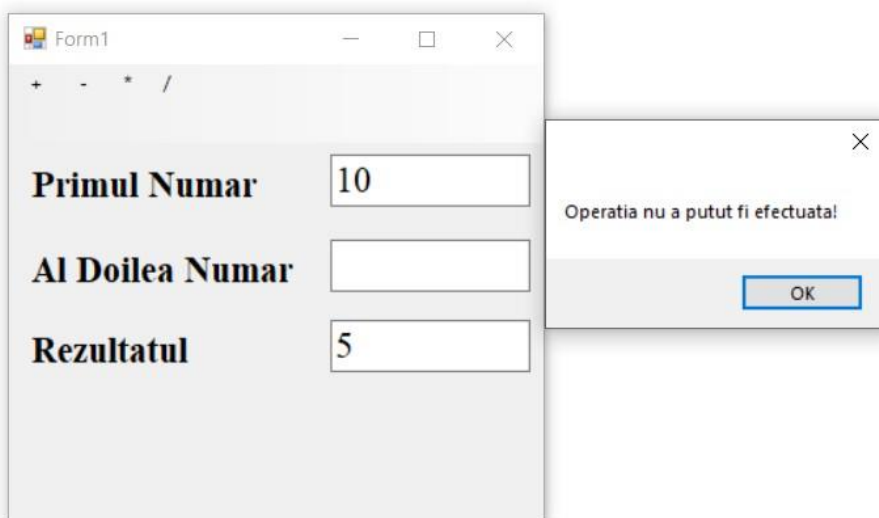
The screenshot shows a window titled 'Form1' with a menu bar containing '+', '-', '*', and '/'. Below the menu, there are three labels and corresponding text boxes: 'Primul Numar' with the value '10', 'Al Doilea Numar' with the value '2', and 'Rezultatul' which is currently empty.

Se alege operatia '/' din meniu



The screenshot shows the same window 'Form1' after the division operation. The 'Rezultatul' text box now contains the value '5'.

Se reincearca alegerea operatiei '/' din meniu in lipsa unuia dintre operatori – se afiseaza un mesaj de eroare

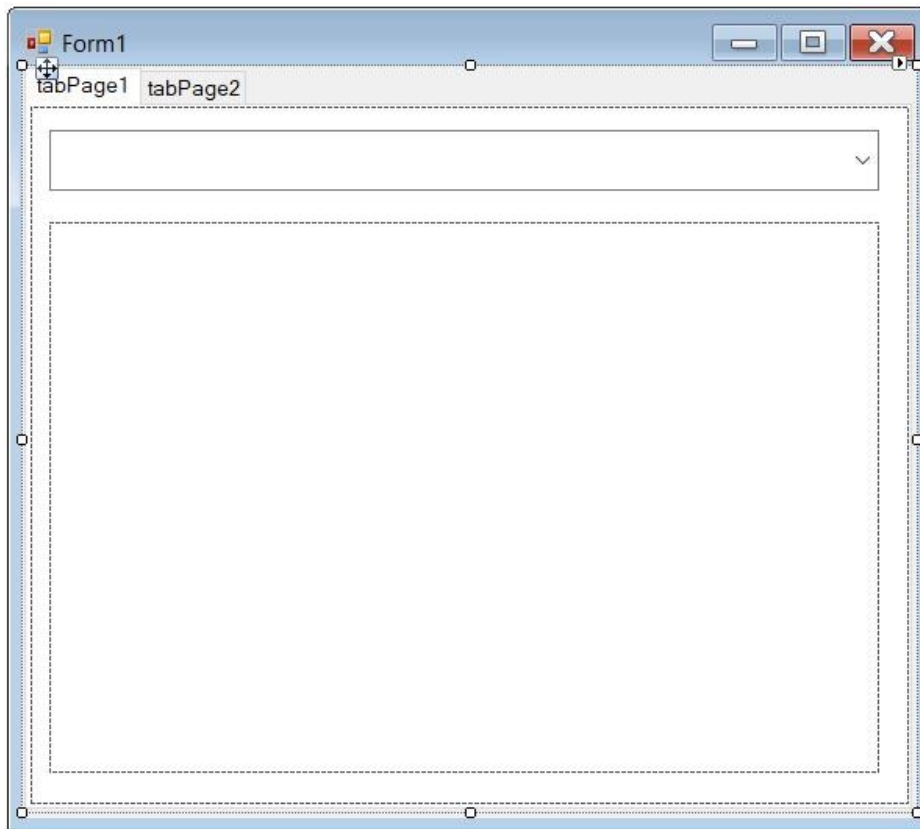


The screenshot shows the application window 'Form1' with the 'Primul Numar' text box containing '10' and the 'Al Doilea Numar' text box empty. An error message dialog box is displayed over the window, with the text 'Operatia nu a putut fi efectuata!' and an 'OK' button.

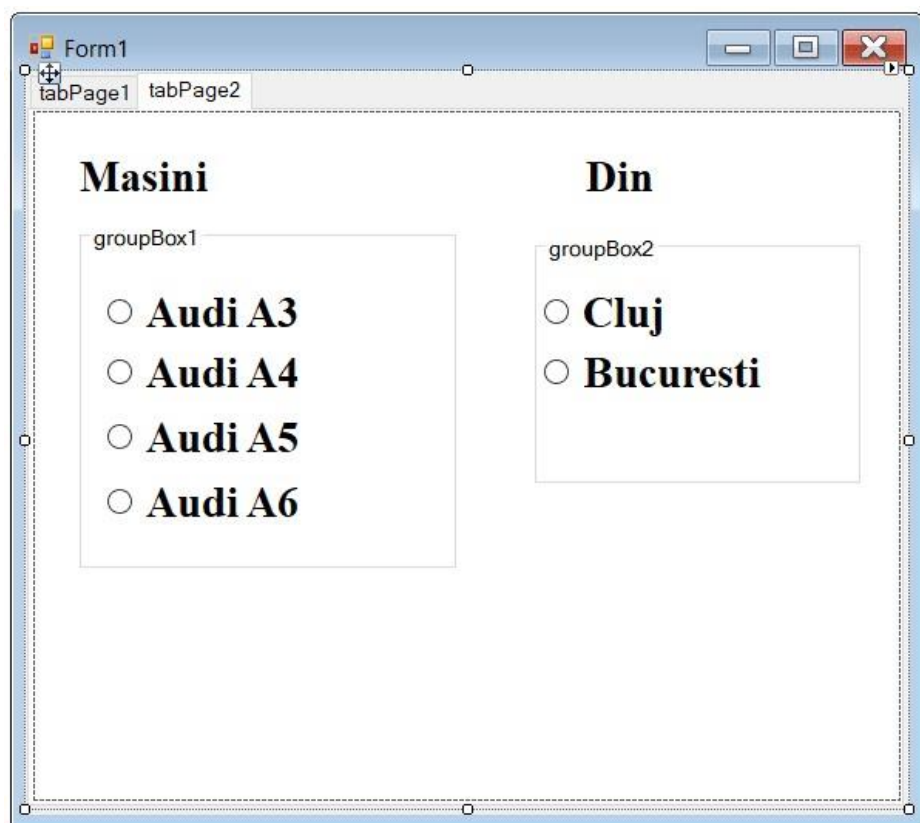
Apasarea butoanelor "X" va conduce la inchiderea aplicatiei

Problema 4:

Design forma:



A screenshot of a Windows Forms application window titled "Form1". The window has a standard Windows title bar with minimize, maximize, and close buttons. Below the title bar is a tab control with two tabs: "tabPage1" and "tabPage2". The "tabPage1" tab is selected. The main content area of the form is empty, with a dashed border indicating the design surface.



A screenshot of the same Windows Forms application window titled "Form1". The window has the same title bar and tab control as the previous image. The "tabPage1" tab is selected. The main content area of the form is populated with two columns of content. The left column is titled "Masini" and contains a group box labeled "groupBox1" with four radio button options: "Audi A3", "Audi A4", "Audi A5", and "Audi A6". The right column is titled "Din" and contains a group box labeled "groupBox2" with two radio button options: "Cluj" and "Bucuresti".

Cod forma:

```

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

namespace L2_p4
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void tabPage1_Click(object sender, EventArgs e)
        {
        }

        private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
        {
            pictureBox1.Image = null;

            switch (comboBox1.SelectedIndex)
            {
                case 0:
                    pictureBox1.Image = Image.FromFile("image_1");
                    break;
                case 1:
                    pictureBox1.Image = Image.FromFile("image_2");
                    break;
                case 2:
                    pictureBox1.Image = Image.FromFile("image_3");
                    break;
                case 3:
                    pictureBox1.Image = Image.FromFile("image_4");
                    break;
                case 4:
                    pictureBox1.Image = Image.FromFile("image_5");
                    break;
                case 5:
                    pictureBox1.Image = Image.FromFile("image_6");
                    break;
                case 6:
                    pictureBox1.Image = Image.FromFile("image_7");
                    break;
                default:
                    break;
            }
        }
    }
}

```

```

private void radioButton1_CheckedChanged(object sender, EventArgs e)
{
    if (radioButton1.Checked)
    {
        if (radioButton5.Checked)
            MessageBox.Show(radioButton1.Text + " din " + radioButton5.Text);
        else
            if (radioButton6.Checked)
                MessageBox.Show(radioButton1.Text + " din " + radioButton6.Text);
    }
}

private void radioButton5_CheckedChanged(object sender, EventArgs e)
{
    if (radioButton5.Checked)
    {
        if (radioButton1.Checked)
            MessageBox.Show(radioButton1.Text + " din " + radioButton5.Text);
        else
            if (radioButton2.Checked)
                MessageBox.Show(radioButton2.Text + " din " + radioButton5.Text);
            else
                if (radioButton3.Checked)
                    MessageBox.Show(radioButton3.Text + " din " + radioButton5.Text);
                else
                    if (radioButton4.Checked)
                        MessageBox.Show(radioButton4.Text + " din " + radioButton5.Text);

```

```

                    else
                        if (radioButton4.Checked)
                            MessageBox.Show(radioButton4.Text + " din " + radioButton5.Text);
                        else
                            MessageBox.Show("Informatii insuficiente.");
    }
}

private void radioButton6_CheckedChanged(object sender, EventArgs e)
{
    if (radioButton6.Checked)
    {
        if (radioButton1.Checked)
            MessageBox.Show(radioButton1.Text + " din " + radioButton6.Text);
        else
            if (radioButton2.Checked)
                MessageBox.Show(radioButton2.Text + " din " + radioButton6.Text);
            else
                if (radioButton3.Checked)
                    MessageBox.Show(radioButton3.Text + " din " + radioButton6.Text);
                else
                    if (radioButton4.Checked)
                        MessageBox.Show(radioButton4.Text + " din " + radioButton6.Text);
                    else
                        MessageBox.Show("Informatii insuficiente.");
    }
}

```

```

private void radioButton2_CheckedChanged(object sender, EventArgs e)
{
    if (radioButton2.Checked)
    {
        if (radioButton5.Checked)
            MessageBox.Show(radioButton2.Text + " din " + radioButton5.Text);
        else
            if (radioButton6.Checked)
                MessageBox.Show(radioButton2.Text + " din " + radioButton6.Text);
    }
}

private void radioButton3_CheckedChanged(object sender, EventArgs e)
{
    if (radioButton3.Checked)
    {
        if (radioButton5.Checked)
            MessageBox.Show(radioButton3.Text + " din " + radioButton5.Text);
        else
            if (radioButton6.Checked)
                MessageBox.Show(radioButton3.Text + " din " + radioButton6.Text);
    }
}

```

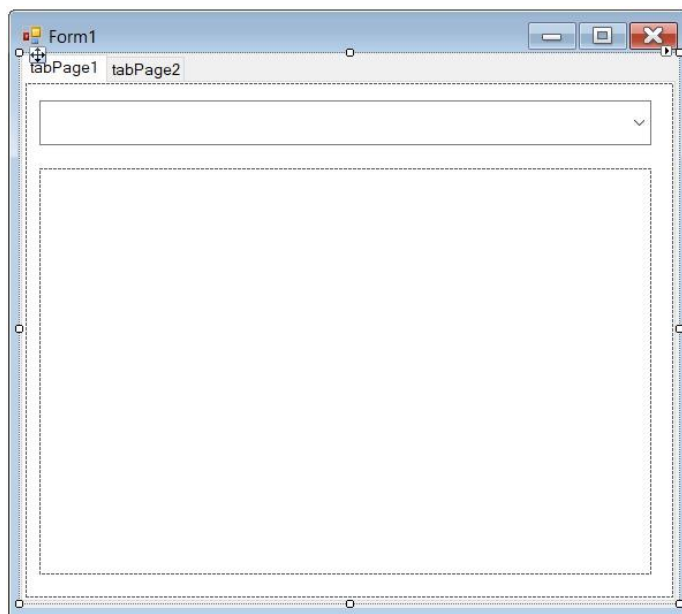
```

private void radioButton4_CheckedChanged(object sender, EventArgs e)
{
    if (radioButton4.Checked)
    {
        if (radioButton5.Checked)
            MessageBox.Show(radioButton4.Text + " din " + radioButton5.Text);
        else
            if (radioButton6.Checked)
                MessageBox.Show(radioButton4.Text + " din " + radioButton6.Text);
    }
}
}
}

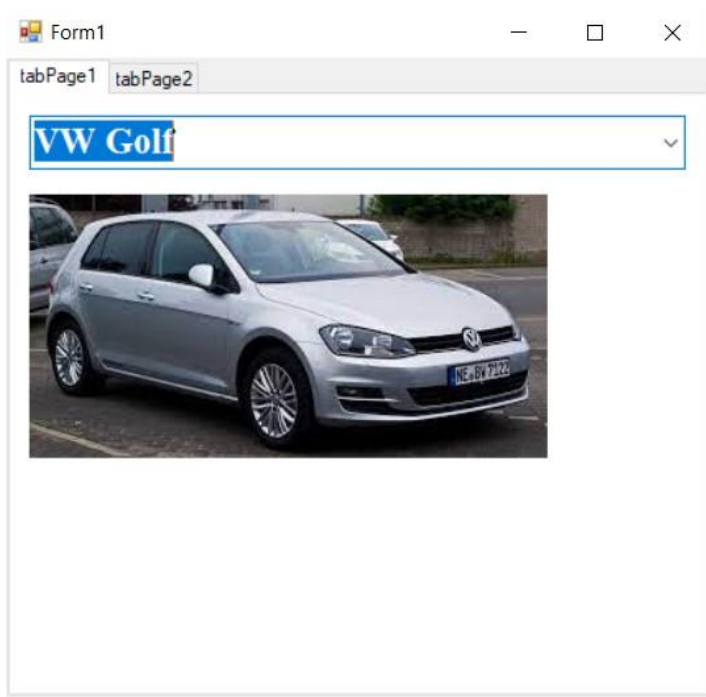
```

Parcurs prin aplicatie:

Se lanseaza programul in executie



Din comboBox se alege item-ul dorit



Se trece la al doilea tabPage prin selectarea acestuia

Form1

tabPage1 tabPage2

Masini

groupBox1

- ☐ Audi A3
- ☐ Audi A4
- ☐ Audi A5
- ☐ Audi A6

Din

groupBox2

- ☐ Cluj
- ☐ Bucuresti

Se alege masina dorita din primul grup

Form1

tabPage1 tabPage2

Masini

groupBox1

- ☒ Audi A3
- ☐ Audi A4
- ☐ Audi A5
- ☐ Audi A6

Din

groupBox2

- ☐ Cluj
- ☐ Bucuresti

Se alege locul de preluare/ridicare dorit – va aparea un mesaj cu selectia

Form1

tabPage1 tabPage2

Masini

groupBox1

☒ **Audi A3**

☐ **Audi A4**

☐ **Audi A5**

☐ **Audi A6**

Din

groupBox2

☒ **Cluj**

☐ **Bucuresti**

Audi A3 din Cluj

OK

Schimband masina, va aparea un nou mesaj actualizat cu noua selectie

Form1

tabPage1 tabPage2

Masini

groupBox1

☐ **Audi A3**

☒ **Audi A4**

☐ **Audi A5**

☐ **Audi A6**

Din

groupBox2

☒ **Cluj**

☐ **Bucuresti**

Audi A4 din Cluj

OK

Apasarea butoanelor “X” va conduce la inchiderea aplicatiei