

Form1.cs (меню)

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

        private void button1_Click(object sender, EventArgs e)
        {
            Calculator calculator = new Calculator();
            calculator.Show();
            this.Hide();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            RNG rng = new RNG();
            rng.Show();
            this.Hide();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Converter con = new Converter();
            con.Show();
            this.Hide();
        }
    }
}
```

Calculator.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 Formsy
{
    public partial class Calculator : Form
    {

```

```

double a;
bool aok = false;
double b;
bool bok = false;
public Calculator()
{
    InitializeComponent();
    comboBox.SelectedIndex = 0;
}

private void calc()
{
    if (aok && bok)
    {
        int op = comboBox.SelectedIndex;
        switch (op)
        {
            case 0:
                answer.Text = (a + b).ToString();
                break;
            case 1:
                answer.Text = (a - b).ToString();
                break;
            case 2:
                answer.Text = (a * b).ToString();
                break;
            case 3:
                answer.Text = (a / b).ToString();
                break;
            case 4:
                answer.Text = (Math.Pow(a,b)).ToString();
                break;
            case 5:
                answer.Text = (a % b).ToString();
                break;
            case 6:
                answer.Text = (Math.Floor(a / b)).ToString();
                break;
            case 7:
                answer.Text = (Math.Log(a,b)).ToString();
                break;
        }
    } else
    {
        answer.Text = "???";
    }
}

private void comboBox_SelectedIndexChanged(object sender, EventArgs e)
{
    calc();
}

private void updlnum()
{
    try
    {
        a = Double.Parse(firstNumber.Text.ToString());
        aok = true;
    }
    catch
    {
        aok = false;
    }
    calc();
}

```

```

    }

    private void upd2num()
    {
        try
        {
            b = Double.Parse(secondNumber.Text.ToString());
            bok = true;
        }
        catch
        {
            bok = false;
        }
        calc();
    }

    private void firstNumber_Leave(object sender, EventArgs e)
    {
        upd1num();
    }

    private void secondNumber_Leave(object sender, EventArgs e)
    {
        upd2num();
    }

    private void firstNumber_KeyDown(object sender, KeyEventArgs e)
    {
        if (e.KeyCode == Keys.Enter) secondNumber.Focus();
    }

    private void secondNumber_KeyDown(object sender, KeyEventArgs e)
    {
        if (e.KeyCode == Keys.Enter) answer.Focus();
    }

    private void firstNumber_TextChanged(object sender, EventArgs e)
    {
        upd1num();
    }

    private void secondNumber_TextChanged(object sender, EventArgs e)
    {
        upd2num();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        Form1 form1= new Form1();
        form1.Show();
        this.Hide();
    }
}
}

```

RNG.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 Formsy
{
    public partial class RNG : Form
    {
        public RNG()
        {
            InitializeComponent();
            comboBox1.SelectedIndex = 0;
        }

        private void button1_Click(object sender, EventArgs e)
        {
            try
            {
                double a = Double.Parse(textBox1.Text.ToString());
                double b = Double.Parse(textBox2.Text.ToString());
                Random r = new Random();
                textBox3.Text = (Math.Floor((a + r.NextDouble()*(b-a))*Math.Pow(10,
comboBox1.SelectedIndex))/Math.Pow(10, comboBox1.SelectedIndex)).ToString();
            } catch
            {
                textBox3.Text = "???";
            }
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Form1 form1 = new Form1();
            form1.Show();
            this.Hide();
        }
    }
}

```

Converter.cs

```

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

namespace Formsy
{
    public partial class Converter : Form
    {
        public Converter()
        {
            InitializeComponent();
        }
    }
}

```

```

        comboBox1.SelectedIndex = 0;
        comboBox2.SelectedIndex = 0;
    }

    private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
    {
        comboBox2.Items.Clear();
        switch (comboBox1.SelectedIndex)
        {
            case 0:
                comboBox2.Items.Add("F");
                break;
            case 1:
                comboBox2.Items.Add("C");
                break;
            case 2:
                comboBox2.Items.Add("CM");
                comboBox2.Items.Add("M");
                comboBox2.Items.Add("KM");
                break;
            case 3:
                comboBox2.Items.Add("MM");
                comboBox2.Items.Add("M");
                comboBox2.Items.Add("KM");
                break;
            case 4:
                comboBox2.Items.Add("MM");
                comboBox2.Items.Add("CM");
                comboBox2.Items.Add("KM");
                break;
            case 5:
                comboBox2.Items.Add("MM");
                comboBox2.Items.Add("CM");
                comboBox2.Items.Add("M");
                break;
            case 6:
                comboBox2.Items.Add("KΓ");
                comboBox2.Items.Add("T");
                break;
            case 7:
                comboBox2.Items.Add("Γ");
                comboBox2.Items.Add("T");
                break;
            case 8:
                comboBox2.Items.Add("Γ");
                comboBox2.Items.Add("KΓ");
                break;
        }
        comboBox2.SelectedIndex = 0;
        calc();
    }

    private void textBox1_TextChanged(object sender, EventArgs e)
    {
        calc();
    }

    private void calc()
    {
        try
        {
            double a = Double.Parse(textBox1.Text.ToString());
            if (comboBox1.Text.Equals("C")) textBox2.Text = (Math.Round((a * 9 /
5 + 32) * 100) / 100).ToString();

```

```

        if (comboBox1.Text.Equals("F")) textBox2.Text = (Math.Round(((a -
32) * 5 / 9) * 100) / 100).ToString();
        double m1 = 1;
        double m2 = 1;
        if (comboBox1.Text.Equals("CM")) m1 = 0.1;
        if (comboBox1.Text.Equals("M")) m1 = 0.001;
        if (comboBox1.Text.Equals("KM")) m1 = 0.000001;
        if (comboBox1.Text.Equals("Kг")) m1 = 0.001;
        if (comboBox1.Text.Equals("т")) m1 = 0.000001;

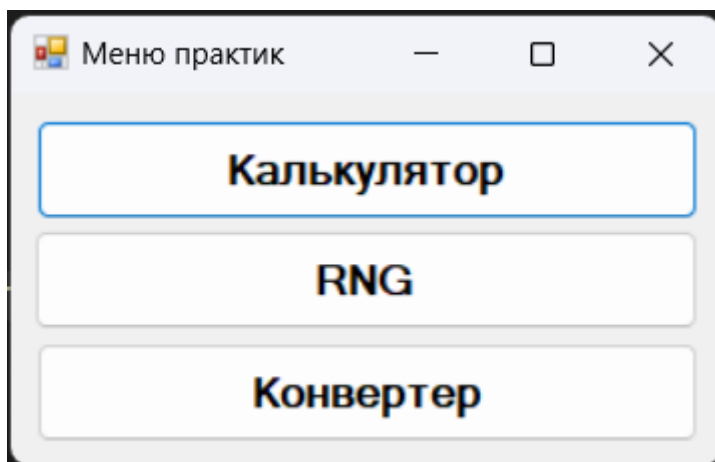
        if (comboBox2.Text.Equals("CM")) m2 = 0.1;
        if (comboBox2.Text.Equals("M")) m2 = 0.001;
        if (comboBox2.Text.Equals("KM")) m2 = 0.000001;
        if (comboBox2.Text.Equals("Kг")) m2 = 0.001;
        if (comboBox2.Text.Equals("т")) m2 = 0.000001;
        if (!(m1 == 1 && m2 == 1)) textBox2.Text = ((m2 / m1) *
a).ToString();
        //if (!(m1 == 1 && m2 == 1) && m1 < m2) textBox2.Text = ((m2 / m1) *
a).ToString();
    }
    catch
    {
        textBox2.Text = "???";
    }
}

private void comboBox2_SelectedIndexChanged(object sender, EventArgs e)
{
    calc();
}

private void button2_Click(object sender, EventArgs e)
{
    Form1 form1 = new Form1();
    form1.Show();
    this.Hide();
}
}
}

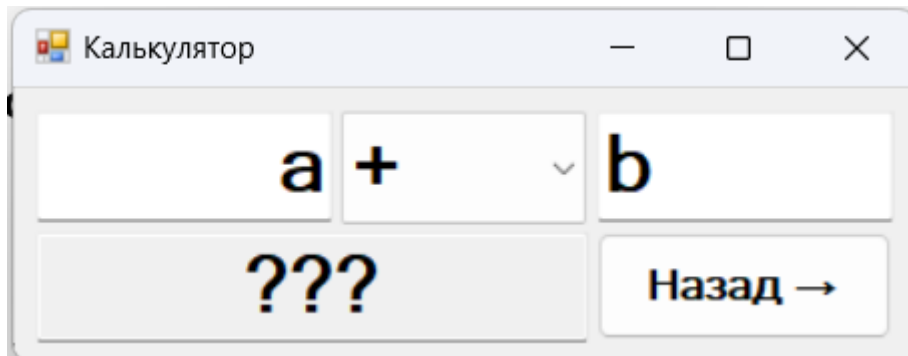
```

Меню



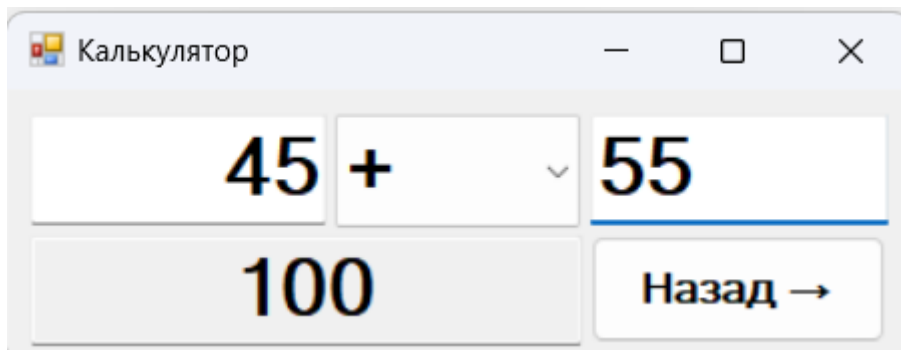
Калькулятор

(результат вычисляется динамически)



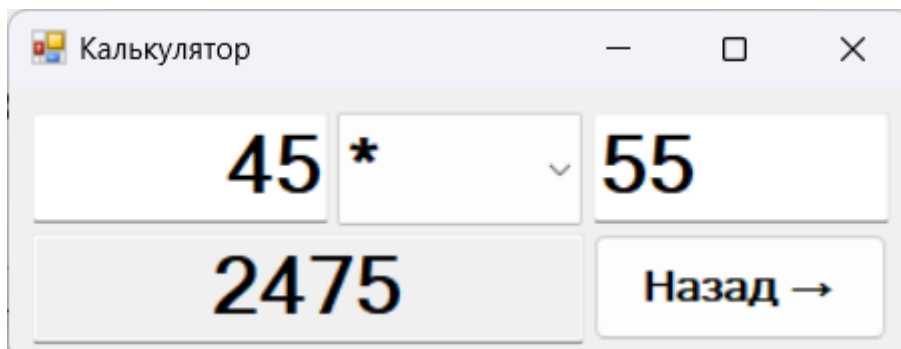
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Калькулятор

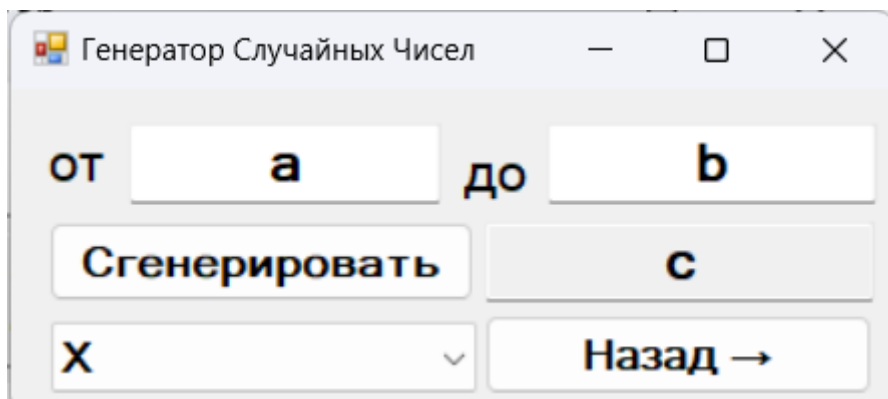
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Калькулятор

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Генератор случайных чисел



Генератор Случайных Чисел

от до

Генератор Случайных Чисел

от до

Генератор Случайных Чисел

от до

Конвертер

(результат тоже динамический)

Конвертер

=

С
С
F
ММ
СМ
М
КМ
Г
КГ
Т

Конвертер

25 C = 77 F

Назад →

Конвертер

25 F = -3,89 C

Назад →

Конвертер

2500000 мм = 2,5 км

Назад →

Конвертер

0,005 т = 5000 г

Назад →