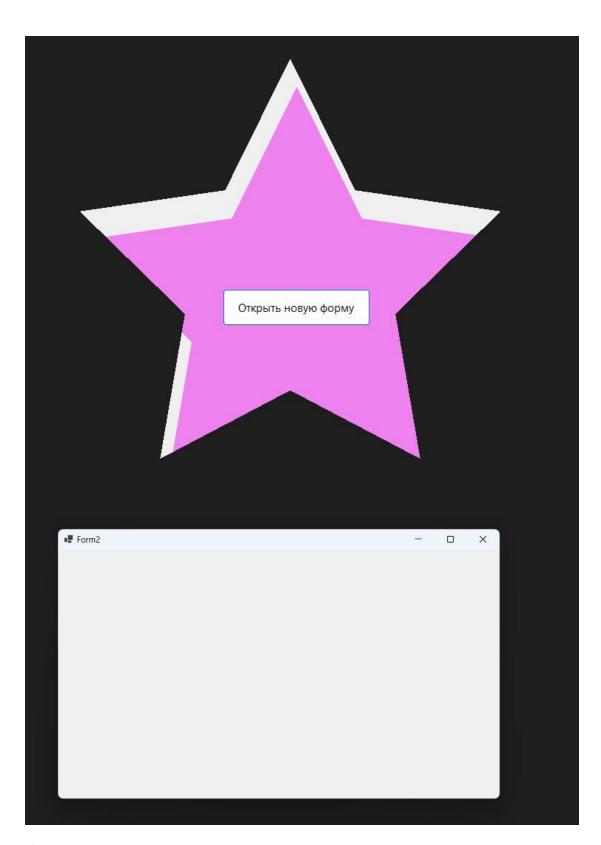
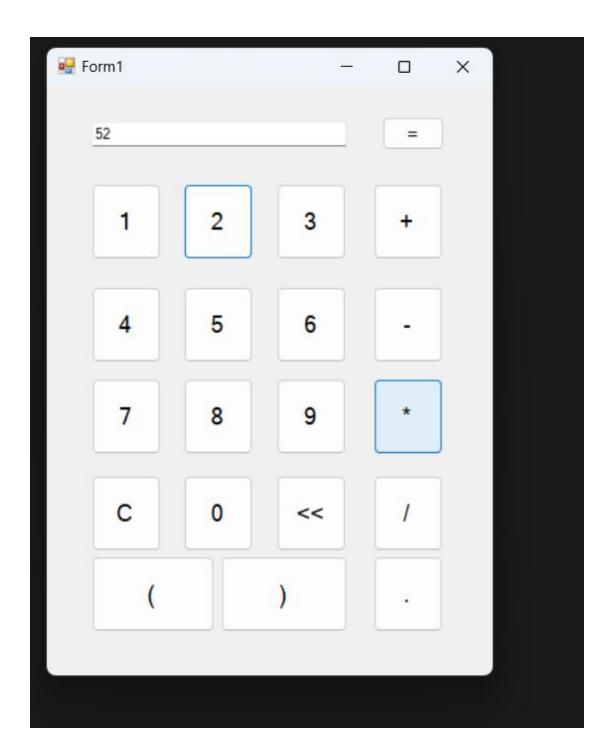
```
1)
             using System;
using System.Drawing;
using System.Drawing.Drawing2D;
using System.Windows.Forms;
          v namespace Practica
                           private Button button;
                                  InitializeComponent();
this.ClientSize = nem Size(800, 800);
this.Text = "@monetomas smessa";
  15
16
17
18
19
                                24
25
26
27
28
29
38
31
32
33
                                 button.Click += new EventHandler(Button_Click);
this.Controls.Add(button);
                                 this.Paint += new PaintEventHandler(MainForm_Paint);
                                  this.Load += new EventHandler(Form1_Load);
                          Counce!
private void Forml_Load(object sender, EventArgs e)
{
                                  SetFormToStar():
  36
37
38
                          Counsel private void SetFormToStar() {
                                 GraphicsPath path = new GraphicsPath();
path.AddPolygon(CreateStarPoints(
    num.points: 5,
    outer_radius: 380,
    inner_radius: 150,
  45
46
47
                                      cx: this.ClientSize.Width / 2,
cy: this.ClientSize.Height / 2
                                  ));
this.Region = new Region(path);
  48
49
                          Country | private void MainForm_Paint(object sender, PaintEventArgs e) {
                                 Graphics g = e.Graphics;
Brush brush = Brushes.Violet;
                                 g.SmoothingMode = SmoothingMode.AntiAlias;
g.FillPolygon(brush, CreateStarPoints(
    num.points: 5,
    outer_radius: 380,
    inner_radius: 150,
  59
68
  61
62
63
64
65
                                       cx: this.ClientSize.Width / 2,
cy: this.ClientSize.Height / 2
                           Counce2 private PointF[] CreateStarPoints(int num_points, float outer_radius, float inner_radius, float cx, float cy) f
  68
69
78
                                 PointF[] pts = new PointF[num_points * 2];
double step = Math.PI / num_points;
double angle = -Math.PI / 2;
  71
72
73
74
75
76
77
78
79
                                 for (int i = 0; i < num_points * 2; i++)
{</pre>
                                        float radius = (i % 2 == 0) ? outer_radius : inner_radius;
                                        pts[i] = new PointF(
    (float)(cx + radius * Math.Cos(angle)),
    (float)(cy + radius * Math.Sin(angle))
                                       );
angle += step;
                                  return pts;
  82
83
                           COMMON: 1 private void Button_Click(object sender, EventArgs e) {
  85
86
87
88
                                 Form2 form2 = new Form2();
form2.Show();
                                  this.Hide();
```

```
v using System;
 1
        using System.Collections.Generic;
 2
        using System.ComponentModel;
 3
        using System.Data;
        using System.Drawing;
 5
        using System.Linq;
 6
        using System. Text;
        using System. Threading. Tasks;
 8
        using System.Windows.Forms;
 9
10
      v namespace Practica
11
12
            Ссылок: 4
             public partial class Form2 : Form
13
14
                 Ссылок: 1
                 public Form2()
15
16
                     InitializeComponent();
17
18
19
20
21
```

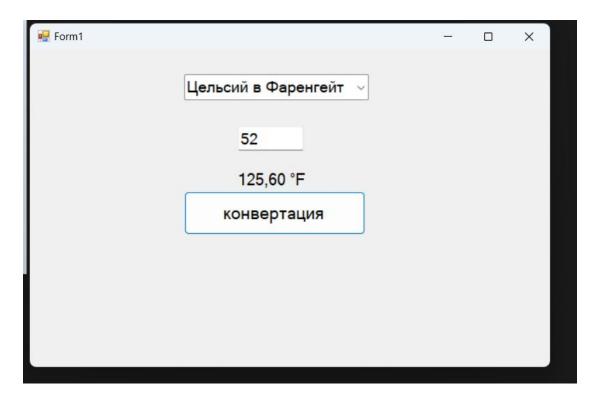


2) 2.1

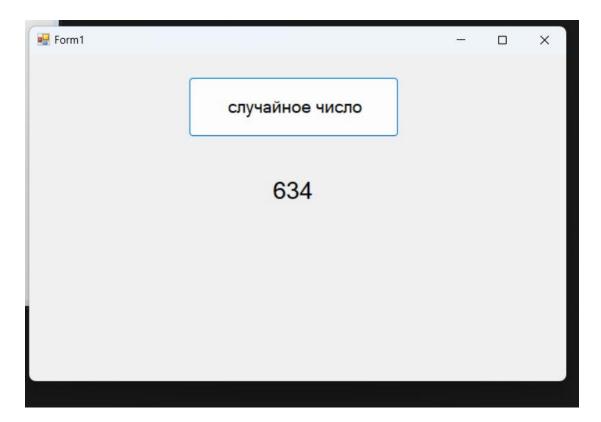
```
using System;
        using System.Collections.Generic;
        using System.ComponentModel;
        using System.Data;
        using System.Drawing;
        using System Linq;
        using System.Text;
7 @
       using System. Threading. Tasks;
       using System.Windows.Forms;
     namespace pr2kalkulator
        {
12
            public partial class Form1 : Form
13
14
                public Form1()
                {
                    InitializeComponent();
                // Обработчик для всех кнопок (общий)
                private void buttonClick(object sender, EventArgs e)
                {
                    var currentButton = sender as Button;
                    textBox1.Text += currentButton.Text;
24
                // Обработчик для buttonll
                private void button11_Click(object sender, EventArgs e)
                1
                    var d = new DataTable();
                    textBox1.Text = d.Compute(textBox1.Text, "").ToString();
                // Обработчик для button13
                private void button13_Click(object sender, EventArgs e)
                    var str = "";
36
                    for (int i = 0; i < textBox1.Text.Length - 1; i++)
37
                        str += textBox1.Text[i];
                    textBox1.Text = str;
                // Обработчик для button12 (очистка текстового поля)
                private void button12_Click(object sender, EventArgs e)
                {
                    textBox1.Text = "";
```



```
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 pr2konvertor
           public partial class Form1 : Form
               public Form1()
                   InitializeComponent();
                   comboBox1.Items.Add("Цельсий в Фаренгейт");
                   comboBox1.Items.Add("Фаренгейт в Цельсий");
                   comboBox1.SelectedIndex = 0;
               private void button1_Click_1(object sender, EventArgs e)
                   double temperature;
                   if (double.TryParse(textBox1.Text, out temperature))
                        if (comboBox1.SelectedIndex == 0) // Цельсий в Фаренгейт
                            double fahrenheit = CelsiusToFahrenheit(temperature);
                           label1.Text = $"{fahrenheit:F2} °F";
                           double celsius = FahrenheitToCelsius(temperature);
                            label1.Text = $"{celsius:F2} °C";
                   3
                        MessageBox.Show("Пожалуйста, введите корректное значение температуры.");
                // Конвертация Цельсий в Фаренгейт
               private double CelsiusToFahrenheit(double celsius)
                   return (celsius * 9 / 5) + 32;
               private double FahrenheitToCelsius(double fahrenheit)
                    return (fahrenheit - 32) * 5 / 9;
56
```



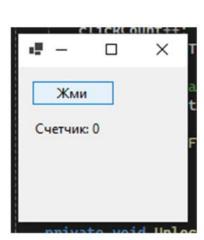
```
v using System;
       using System.Collections.Generic;
       using System.ComponentModel;
       using System.Data;
       using System Drawing;
       using System.Linq;
       using System.Text;
       using System. Threading. Tasks;
       using System.Windows.Forms;
     namespace pr2random
       1
           public partial class Form1 : Form
                public Form1()
                    InitializeComponent();
                private void button1_Click(object sender, EventArgs e)
                    random_1();
                private void random_1()
                    Random r = new Random();
                    int a = r.Next(0, 1000);
                    label1.Text = a.ToString();
32
```

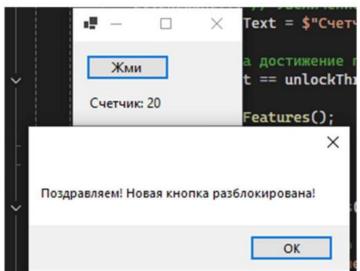


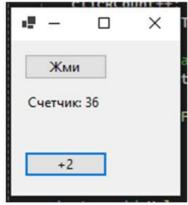
4)

4.1

```
using System;
using System.Windows.Forms;
namespace practic_4
    public partial class Clicker: Form
        private int clickCount = 0;
       private const int unlockThreshold = 20;
       private const int doubleIncrementThreshold = 20;
       private Button newButton;
        public Clicker()
            InitializeComponent();
            labelCounter.Text = $"Счётчик: {clickCount}";
        3
        private void ButtonClick_Click(object sender, EventArgs e)
            clickCount++;
            labelCounter.Text = $"Счётчик: {clickCount}";
            if (clickCount == unlockThreshold)
                UnlockNewFeatures();
        Ссылок: 1
        private void UnlockNewFeatures()
            MessageBox.Show("Поздравляем! Новая кнопка разблокирована!");
            newButton = new Button
                Text = "+2",
                Location = new System.Drawing.Point(100, 100)
            newButton.Click += NewButton_Click;
            this.Controls.Add(newButton);
        private void NewButton_Click(object sender, EventArgs e)
            int incrementValue = 1;
            if (clickCount >= doubleIncrementThreshold)
            {
                incrementValue = 2;
            clickCount += incrementValue;
            labelCounter.Text = $"Счётчик: {clickCount}";
```







4.2

```
using System;
using System.Windows.Forms;
using static System.Windows.Forms.VisualStyles.VisualStyleElement;
namespace practic_4_2
    public partial class Pokupki : Form
        public Pokupki()
            InitializeComponent();
        private void ButtonAdd_Click(object sender, EventArgs e)
            string productName = textBox1.Text;
            if (string.IsNullOrWhiteSpace(productName))
                MessageBox.Show("Пожалуйста, введите название товара.");
                return;
            // Добавление товара в ListBox
            listBox1.Items.Add(productName);
            // Очистка TextBox и фокусировка на нем
            textBox1.Clear();
            textBox1.Focus();
        // Обработчик для удаления выбранного товара из списка
        private void ButtonRemove_Click(object sender, EventArgs e)
            if (listBox1.SelectedItem != null)
                // Получение имени выбранного товара
                string selectedProduct = listBox1.SelectedItem.ToString();
                listBox1.Items.Remove(selectedProduct);
                // Отображение имени удаленного товара в отдельном окне
                MessageBox.Show($"Товар \"{selectedProduct}\" был удален из списка.");
            else
                MessageBox.Show("Пожалуйста, выберите товар для удаления.");
```

