МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РЕСПУБЛИКИ БЕЛАРУСЬ

БЕЛОРУССКИЙ НАЦИОНАЛЬНЫЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ

## Факультет информационных технологий и робототехники

Кафедра программного обеспечения информационных систем и технологий

**Отчет по лабораторной работе № 1**

по дисциплине: ”Разработка простейшего приложения в визуальной среде WPF”

на тему: ***”*** ***Разработка приложения, поддерживающего создание графических изображений”***

Вариант 14

Выполнил**:** студент группы 107012019 Кузьмич И.В.

Принял**:** Гурский Н.Н.

Минск 2020

***Цель лабораторной работы:*** Изучить основные графические компоненты, их свойства и методы.

## Постановка задачи: Разработать приложение, поддерживающее основные функции простейшего графического редактора.

***Задание:***

Разработать приложение, содержащее три формы – три способа представления графической информации.

На 1-й форме продемонстрировать отображение графических картинок, созданных в других графических редакторах.

На 2-й форме с помощью кнопочного меню рисовать различные графические фигуры посредством компоненты класса TShape.

На 3-й форме реализовать рисование простейшими примитивами, типа линия, прямоугольник, эллипс и т.д.

***Код программы:***

Файл Form2.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 Task

{

public partial class Form2 : Form

{

Pen pn;

Graphics g;

public Form2()

{

InitializeComponent();

pn = new Pen(Color.Black, 5);

g = panel1.CreateGraphics();

}

private void button1\_Click(object sender, EventArgs e)

{

g.DrawRectangle(pn, 50, 50, 500, 500);

}

private void button2\_Click(object sender, EventArgs e)

{

g.DrawEllipse(pn, 50, 50, 500, 500);

}

private void button3\_Click(object sender, EventArgs e)

{

g.DrawLine(pn, 50, 50, 550, 550);

}

private void button4\_Click(object sender, EventArgs e)

{

g.Clear(Color.White);

}

}

}

Файл Form2.Designer.cs

﻿namespace Task

{

partial class Form2

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.button1 = new System.Windows.Forms.Button();

this.panel1 = new System.Windows.Forms.Panel();

this.button2 = new System.Windows.Forms.Button();

this.button3 = new System.Windows.Forms.Button();

this.button4 = new System.Windows.Forms.Button();

this.SuspendLayout();

//

// button1

//

this.button1.Location = new System.Drawing.Point(12, 12);

this.button1.Name = "button1";

this.button1.Size = new System.Drawing.Size(117, 29);

this.button1.TabIndex = 0;

this.button1.Text = "Прямоугольник";

this.button1.UseVisualStyleBackColor = true;

this.button1.Click += new System.EventHandler(this.button1\_Click);

//

// panel1

//

this.panel1.BackColor = System.Drawing.Color.White;

this.panel1.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;

this.panel1.Location = new System.Drawing.Point(135, 12);

this.panel1.Name = "panel1";

this.panel1.Size = new System.Drawing.Size(600, 600);

this.panel1.TabIndex = 1;

//

// button2

//

this.button2.Location = new System.Drawing.Point(12, 47);

this.button2.Name = "button2";

this.button2.Size = new System.Drawing.Size(117, 29);

this.button2.TabIndex = 2;

this.button2.Text = "Эллипс";

this.button2.UseVisualStyleBackColor = true;

this.button2.Click += new System.EventHandler(this.button2\_Click);

//

// button3

//

this.button3.Location = new System.Drawing.Point(12, 82);

this.button3.Name = "button3";

this.button3.Size = new System.Drawing.Size(117, 29);

this.button3.TabIndex = 3;

this.button3.Text = "Линия";

this.button3.UseVisualStyleBackColor = true;

this.button3.Click += new System.EventHandler(this.button3\_Click);

//

// button4

//

this.button4.Location = new System.Drawing.Point(12, 583);

this.button4.Name = "button4";

this.button4.Size = new System.Drawing.Size(117, 29);

this.button4.TabIndex = 4;

this.button4.Text = "Очистить";

this.button4.UseVisualStyleBackColor = true;

this.button4.Click += new System.EventHandler(this.button4\_Click);

//

// Form3

//

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(747, 624);

this.Controls.Add(this.button4);

this.Controls.Add(this.button3);

this.Controls.Add(this.button2);

this.Controls.Add(this.panel1);

this.Controls.Add(this.button1);

this.Name = "Form3";

this.Text = "Вторая форма";

this.ResumeLayout(false);

}

#endregion

private System.Windows.Forms.Button button1;

private System.Windows.Forms.Panel panel1;

private System.Windows.Forms.Button button2;

private System.Windows.Forms.Button button3;

private System.Windows.Forms.Button button4;

}

}

Файл Program.cs

﻿using System;

using System.Collections.Generic;

using System.Linq;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace Task

{

static class Program

{

/// <summary>

/// Главная точка входа для приложения.

/// </summary>

[STAThread]

static void Main()

{

Application.EnableVisualStyles();

Application.SetCompatibleTextRenderingDefault(false);

Application.Run(new FormMain());

}

}

}

Файл Form1.Designer.cs

﻿namespace Task

{

partial class Form1

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.components = new System.ComponentModel.Container();

this.button1 = new System.Windows.Forms.Button();

this.button2 = new System.Windows.Forms.Button();

this.pictureBox1 = new System.Windows.Forms.PictureBox();

this.contextMenuStrip1 = new System.Windows.Forms.ContextMenuStrip(this.components);

this.DrawLineToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();

this.DrawTwoLinesToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();

this.toolStripSeparator1 = new System.Windows.Forms.ToolStripSeparator();

this.toolStripMenuItem1 = new System.Windows.Forms.ToolStripMenuItem();

this.BlackToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();

this.redToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();

this.GreenToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();

this.BlueToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();

this.pictureBox2 = new System.Windows.Forms.PictureBox();

this.pictureBox3 = new System.Windows.Forms.PictureBox();

this.pictureBox4 = new System.Windows.Forms.PictureBox();

this.openFileDialog1 = new System.Windows.Forms.OpenFileDialog();

((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).BeginInit();

this.contextMenuStrip1.SuspendLayout();

((System.ComponentModel.ISupportInitialize)(this.pictureBox2)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.pictureBox3)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.pictureBox4)).BeginInit();

this.SuspendLayout();

//

// button1

//

this.button1.Anchor = ((System.Windows.Forms.AnchorStyles)((System.Windows.Forms.AnchorStyles.Bottom | System.Windows.Forms.AnchorStyles.Left)));

this.button1.Location = new System.Drawing.Point(12, 629);

this.button1.Name = "button1";

this.button1.Size = new System.Drawing.Size(91, 50);

this.button1.TabIndex = 0;

this.button1.Text = "Загрузить картинку";

this.button1.UseVisualStyleBackColor = true;

this.button1.Click += new System.EventHandler(this.button1\_Click);

//

// button2

//

this.button2.Anchor = ((System.Windows.Forms.AnchorStyles)((System.Windows.Forms.AnchorStyles.Bottom | System.Windows.Forms.AnchorStyles.Right)));

this.button2.Location = new System.Drawing.Point(533, 629);

this.button2.Name = "button2";

this.button2.Size = new System.Drawing.Size(91, 50);

this.button2.TabIndex = 1;

this.button2.Text = "Закрыть";

this.button2.UseVisualStyleBackColor = true;

this.button2.Click += new System.EventHandler(this.button2\_Click);

//

// pictureBox1

//

this.pictureBox1.ContextMenuStrip = this.contextMenuStrip1;

this.pictureBox1.Location = new System.Drawing.Point(12, 12);

this.pictureBox1.Name = "pictureBox1";

this.pictureBox1.Size = new System.Drawing.Size(300, 300);

this.pictureBox1.TabIndex = 2;

this.pictureBox1.TabStop = false;

//

// contextMenuStrip1

//

this.contextMenuStrip1.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {

this.DrawLineToolStripMenuItem,

this.DrawTwoLinesToolStripMenuItem,

this.toolStripSeparator1,

this.toolStripMenuItem1});

this.contextMenuStrip1.Name = "contextMenuStrip1";

this.contextMenuStrip1.Size = new System.Drawing.Size(222, 98);

//

// DrawLineToolStripMenuItem

//

this.DrawLineToolStripMenuItem.Name = "DrawLineToolStripMenuItem";

this.DrawLineToolStripMenuItem.Size = new System.Drawing.Size(221, 22);

this.DrawLineToolStripMenuItem.Text = "Нарисовать линию";

this.DrawLineToolStripMenuItem.Click += new System.EventHandler(this.DrawLineToolStripMenuItem\_Click);

//

// DrawTwoLinesToolStripMenuItem

//

this.DrawTwoLinesToolStripMenuItem.Name = "DrawTwoLinesToolStripMenuItem";

this.DrawTwoLinesToolStripMenuItem.Size = new System.Drawing.Size(221, 22);

this.DrawTwoLinesToolStripMenuItem.Text = "Нарисовать вторую линии";

this.DrawTwoLinesToolStripMenuItem.Click += new System.EventHandler(this.DrawTwoLinesToolStripMenuItem\_Click);

//

// toolStripSeparator1

//

this.toolStripSeparator1.Name = "toolStripSeparator1";

this.toolStripSeparator1.Size = new System.Drawing.Size(218, 6);

//

// toolStripMenuItem1

//

this.toolStripMenuItem1.DropDownItems.AddRange(new System.Windows.Forms.ToolStripItem[] {

this.BlackToolStripMenuItem,

this.redToolStripMenuItem,

this.GreenToolStripMenuItem,

this.BlueToolStripMenuItem});

this.toolStripMenuItem1.Name = "toolStripMenuItem1";

this.toolStripMenuItem1.Size = new System.Drawing.Size(221, 22);

this.toolStripMenuItem1.Text = "Цвет";

//

// BlackToolStripMenuItem

//

this.BlackToolStripMenuItem.Name = "BlackToolStripMenuItem";

this.BlackToolStripMenuItem.Size = new System.Drawing.Size(180, 22);

this.BlackToolStripMenuItem.Text = "Черный";

this.BlackToolStripMenuItem.Click += new System.EventHandler(this.BlackToolStripMenuItem\_Click);

//

// redToolStripMenuItem

//

this.redToolStripMenuItem.Name = "redToolStripMenuItem";

this.redToolStripMenuItem.Size = new System.Drawing.Size(180, 22);

this.redToolStripMenuItem.Text = "Красный";

this.redToolStripMenuItem.Click += new System.EventHandler(this.redToolStripMenuItem\_Click);

//

// GreenToolStripMenuItem

//

this.GreenToolStripMenuItem.Name = "GreenToolStripMenuItem";

this.GreenToolStripMenuItem.Size = new System.Drawing.Size(180, 22);

this.GreenToolStripMenuItem.Text = "Зеленый";

this.GreenToolStripMenuItem.Click += new System.EventHandler(this.GreenToolStripMenuItem\_Click);

//

// BlueToolStripMenuItem

//

this.BlueToolStripMenuItem.Name = "BlueToolStripMenuItem";

this.BlueToolStripMenuItem.Size = new System.Drawing.Size(180, 22);

this.BlueToolStripMenuItem.Text = "Синий";

this.BlueToolStripMenuItem.Click += new System.EventHandler(this.BlueToolStripMenuItem\_Click);

//

// pictureBox2

//

this.pictureBox2.Anchor = ((System.Windows.Forms.AnchorStyles)((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Right)));

this.pictureBox2.Location = new System.Drawing.Point(324, 12);

this.pictureBox2.Name = "pictureBox2";

this.pictureBox2.Size = new System.Drawing.Size(300, 300);

this.pictureBox2.SizeMode = System.Windows.Forms.PictureBoxSizeMode.StretchImage;

this.pictureBox2.TabIndex = 3;

this.pictureBox2.TabStop = false;

//

// pictureBox3

//

this.pictureBox3.Anchor = ((System.Windows.Forms.AnchorStyles)((System.Windows.Forms.AnchorStyles.Bottom | System.Windows.Forms.AnchorStyles.Left)));

this.pictureBox3.Location = new System.Drawing.Point(12, 323);

this.pictureBox3.Name = "pictureBox3";

this.pictureBox3.Size = new System.Drawing.Size(300, 300);

this.pictureBox3.SizeMode = System.Windows.Forms.PictureBoxSizeMode.CenterImage;

this.pictureBox3.TabIndex = 5;

this.pictureBox3.TabStop = false;

//

// pictureBox4

//

this.pictureBox4.Anchor = ((System.Windows.Forms.AnchorStyles)((System.Windows.Forms.AnchorStyles.Bottom | System.Windows.Forms.AnchorStyles.Right)));

this.pictureBox4.Location = new System.Drawing.Point(324, 323);

this.pictureBox4.Name = "pictureBox4";

this.pictureBox4.Size = new System.Drawing.Size(300, 300);

this.pictureBox4.SizeMode = System.Windows.Forms.PictureBoxSizeMode.Zoom;

this.pictureBox4.TabIndex = 6;

this.pictureBox4.TabStop = false;

//

// openFileDialog1

//

this.openFileDialog1.FileName = "openFileDialog1";

//

// Form1

//

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(636, 691);

this.Controls.Add(this.pictureBox4);

this.Controls.Add(this.pictureBox3);

this.Controls.Add(this.pictureBox2);

this.Controls.Add(this.pictureBox1);

this.Controls.Add(this.button2);

this.Controls.Add(this.button1);

this.Name = "Form1";

this.Text = "Первая форма";

((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).EndInit();

this.contextMenuStrip1.ResumeLayout(false);

((System.ComponentModel.ISupportInitialize)(this.pictureBox2)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.pictureBox3)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.pictureBox4)).EndInit();

this.ResumeLayout(false);

}

#endregion

private System.Windows.Forms.Button button1;

private System.Windows.Forms.Button button2;

private System.Windows.Forms.PictureBox pictureBox1;

private System.Windows.Forms.PictureBox pictureBox2;

private System.Windows.Forms.PictureBox pictureBox3;

private System.Windows.Forms.PictureBox pictureBox4;

private System.Windows.Forms.OpenFileDialog openFileDialog1;

private System.Windows.Forms.ContextMenuStrip contextMenuStrip1;

private System.Windows.Forms.ToolStripMenuItem DrawLineToolStripMenuItem;

private System.Windows.Forms.ToolStripMenuItem DrawTwoLinesToolStripMenuItem;

private System.Windows.Forms.ToolStripSeparator toolStripSeparator1;

private System.Windows.Forms.ToolStripMenuItem toolStripMenuItem1;

private System.Windows.Forms.ToolStripMenuItem BlackToolStripMenuItem;

private System.Windows.Forms.ToolStripMenuItem redToolStripMenuItem;

private System.Windows.Forms.ToolStripMenuItem GreenToolStripMenuItem;

private System.Windows.Forms.ToolStripMenuItem BlueToolStripMenuItem;

}

}

Файл FormMain.Designer.cs

﻿namespace Task

{

partial class FormMain

{

/// <summary>

/// Обязательная переменная конструктора.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Освободить все используемые ресурсы.

/// </summary>

/// <param name="disposing">истинно, если управляемый ресурс должен быть удален; иначе ложно.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Код, автоматически созданный конструктором форм Windows

/// <summary>

/// Требуемый метод для поддержки конструктора — не изменяйте

/// содержимое этого метода с помощью редактора кода.

/// </summary>

private void InitializeComponent()

{

System.Windows.Forms.Button button1;

this.button2 = new System.Windows.Forms.Button();

this.button3 = new System.Windows.Forms.Button();

button1 = new System.Windows.Forms.Button();

this.SuspendLayout();

//

// button1

//

button1.Font = new System.Drawing.Font("Microsoft Sans Serif", 15.75F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(204)));

button1.Location = new System.Drawing.Point(12, 12);

button1.Name = "button1";

button1.Size = new System.Drawing.Size(300, 50);

button1.TabIndex = 0;

button1.Text = "Первая форма";

button1.UseVisualStyleBackColor = true;

button1.Click += new System.EventHandler(this.button1\_Click);

//

// button2

//

this.button2.Font = new System.Drawing.Font("Microsoft Sans Serif", 15.75F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(204)));

this.button2.Location = new System.Drawing.Point(13, 68);

this.button2.Name = "button2";

this.button2.Size = new System.Drawing.Size(300, 50);

this.button2.TabIndex = 1;

this.button2.Text = "Вторая форма";

this.button2.UseVisualStyleBackColor = true;

this.button2.Click += new System.EventHandler(this.button2\_Click);

//

// button3

//

this.button3.Font = new System.Drawing.Font("Microsoft Sans Serif", 15.75F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(204)));

this.button3.Location = new System.Drawing.Point(12, 124);

this.button3.Name = "button3";

this.button3.Size = new System.Drawing.Size(300, 50);

this.button3.TabIndex = 2;

this.button3.Text = "Третья форма";

this.button3.UseVisualStyleBackColor = true;

this.button3.Click += new System.EventHandler(this.button3\_Click);

//

// FormMain

//

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(325, 185);

this.Controls.Add(this.button3);

this.Controls.Add(this.button2);

this.Controls.Add(button1);

this.MaximumSize = new System.Drawing.Size(341, 224);

this.MinimumSize = new System.Drawing.Size(341, 224);

this.Name = "FormMain";

this.Text = "Лабораторная работа №11";

this.ResumeLayout(false);

}

#endregion

private System.Windows.Forms.Button button2;

private System.Windows.Forms.Button button3;

}

}

Файл FormMain.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 Task

{

public partial class FormMain : Form

{

public FormMain()

{

InitializeComponent();

}

private void button1\_Click(object sender, EventArgs e)

{

Form1 first\_form = new Form1();

first\_form.Show();

}

private void button2\_Click(object sender, EventArgs e)

{

Form2 second\_form = new Form2();

second\_form.Show();

}

private void button3\_Click(object sender, EventArgs e)

{

Form3 third\_form = new Form3();

third\_form.Show();

}

}

}

Файл 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 Task

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

Pen pn;

Graphics g;

Color color = Color.Black;

private void button1\_Click(object sender, EventArgs e)

{

DialogResult res = openFileDialog1.ShowDialog();

openFileDialog1.Title = "Open Image";

if (res == DialogResult.OK)

{

pictureBox1.Image = new Bitmap(openFileDialog1.FileName);

pictureBox2.Image = new Bitmap(openFileDialog1.FileName);

pictureBox3.Image = new Bitmap(openFileDialog1.FileName);

pictureBox4.Image = new Bitmap(openFileDialog1.FileName);

}

}

private void button2\_Click(object sender, EventArgs e)

{

this.Close();

}

private void DrawLineToolStripMenuItem\_Click(object sender, EventArgs e)

{

pn = new Pen(color, 5);

g = pictureBox1.CreateGraphics();

g.DrawLine(pn, 0, 0, pictureBox1.Width, pictureBox1.Height);

}

private void DrawTwoLinesToolStripMenuItem\_Click(object sender, EventArgs e)

{

pn = new Pen(color, 5);

g = pictureBox1.CreateGraphics();

g.DrawLine(pn, 0, pictureBox1.Height, pictureBox1.Width, 0);

}

private void BlackToolStripMenuItem\_Click(object sender, EventArgs e)

{

color = Color.Black;

}

private void redToolStripMenuItem\_Click(object sender, EventArgs e)

{

color = Color.Red;

}

private void GreenToolStripMenuItem\_Click(object sender, EventArgs e)

{

color = Color.Green;

}

private void BlueToolStripMenuItem\_Click(object sender, EventArgs e)

{

color = Color.Blue;

}

}

}

Файл Form3.Designer.cs

﻿namespace Task

{

partial class Form3

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.groupBox1 = new System.Windows.Forms.GroupBox();

this.radioButton4 = new System.Windows.Forms.RadioButton();

this.radioButton3 = new System.Windows.Forms.RadioButton();

this.radioButton2 = new System.Windows.Forms.RadioButton();

this.radioButton1 = new System.Windows.Forms.RadioButton();

this.groupBox2 = new System.Windows.Forms.GroupBox();

this.textBox7 = new System.Windows.Forms.TextBox();

this.label7 = new System.Windows.Forms.Label();

this.textBox8 = new System.Windows.Forms.TextBox();

this.label8 = new System.Windows.Forms.Label();

this.textBox6 = new System.Windows.Forms.TextBox();

this.label6 = new System.Windows.Forms.Label();

this.textBox5 = new System.Windows.Forms.TextBox();

this.label5 = new System.Windows.Forms.Label();

this.textBox3 = new System.Windows.Forms.TextBox();

this.label3 = new System.Windows.Forms.Label();

this.textBox4 = new System.Windows.Forms.TextBox();

this.label4 = new System.Windows.Forms.Label();

this.textBox2 = new System.Windows.Forms.TextBox();

this.label2 = new System.Windows.Forms.Label();

this.textBox1 = new System.Windows.Forms.TextBox();

this.label1 = new System.Windows.Forms.Label();

this.groupBox3 = new System.Windows.Forms.GroupBox();

this.numericUpDown1 = new System.Windows.Forms.NumericUpDown();

this.panel2 = new System.Windows.Forms.Panel();

this.label12 = new System.Windows.Forms.Label();

this.label11 = new System.Windows.Forms.Label();

this.textBox11 = new System.Windows.Forms.TextBox();

this.trackBar3 = new System.Windows.Forms.TrackBar();

this.label10 = new System.Windows.Forms.Label();

this.textBox10 = new System.Windows.Forms.TextBox();

this.trackBar2 = new System.Windows.Forms.TrackBar();

this.label9 = new System.Windows.Forms.Label();

this.textBox9 = new System.Windows.Forms.TextBox();

this.trackBar1 = new System.Windows.Forms.TrackBar();

this.panel1 = new System.Windows.Forms.Panel();

this.button1 = new System.Windows.Forms.Button();

this.button2 = new System.Windows.Forms.Button();

this.button3 = new System.Windows.Forms.Button();

this.textBox12 = new System.Windows.Forms.TextBox();

this.groupBox1.SuspendLayout();

this.groupBox2.SuspendLayout();

this.groupBox3.SuspendLayout();

((System.ComponentModel.ISupportInitialize)(this.numericUpDown1)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.trackBar3)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.trackBar2)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.trackBar1)).BeginInit();

this.SuspendLayout();

//

// groupBox1

//

this.groupBox1.Controls.Add(this.radioButton4);

this.groupBox1.Controls.Add(this.radioButton3);

this.groupBox1.Controls.Add(this.radioButton2);

this.groupBox1.Controls.Add(this.radioButton1);

this.groupBox1.Location = new System.Drawing.Point(12, 6);

this.groupBox1.Name = "groupBox1";

this.groupBox1.Size = new System.Drawing.Size(253, 124);

this.groupBox1.TabIndex = 1;

this.groupBox1.TabStop = false;

this.groupBox1.Text = "Геометрическая фигура";

//

// radioButton4

//

this.radioButton4.AutoSize = true;

this.radioButton4.Location = new System.Drawing.Point(6, 89);

this.radioButton4.Name = "radioButton4";

this.radioButton4.Size = new System.Drawing.Size(61, 17);

this.radioButton4.TabIndex = 3;

this.radioButton4.Text = "Сектор";

this.radioButton4.UseVisualStyleBackColor = true;

this.radioButton4.CheckedChanged += new System.EventHandler(this.radioButton4\_CheckedChanged);

//

// radioButton3

//

this.radioButton3.AutoSize = true;

this.radioButton3.Location = new System.Drawing.Point(7, 66);

this.radioButton3.Name = "radioButton3";

this.radioButton3.Size = new System.Drawing.Size(57, 17);

this.radioButton3.TabIndex = 2;

this.radioButton3.Text = "Линия";

this.radioButton3.UseVisualStyleBackColor = true;

this.radioButton3.CheckedChanged += new System.EventHandler(this.radioButton3\_CheckedChanged);

//

// radioButton2

//

this.radioButton2.AutoSize = true;

this.radioButton2.Location = new System.Drawing.Point(7, 43);

this.radioButton2.Name = "radioButton2";

this.radioButton2.Size = new System.Drawing.Size(62, 17);

this.radioButton2.TabIndex = 1;

this.radioButton2.Text = "Эллипс";

this.radioButton2.UseVisualStyleBackColor = true;

this.radioButton2.CheckedChanged += new System.EventHandler(this.radioButton2\_CheckedChanged);

//

// radioButton1

//

this.radioButton1.AutoSize = true;

this.radioButton1.Checked = true;

this.radioButton1.Location = new System.Drawing.Point(7, 20);

this.radioButton1.Name = "radioButton1";

this.radioButton1.Size = new System.Drawing.Size(105, 17);

this.radioButton1.TabIndex = 0;

this.radioButton1.TabStop = true;

this.radioButton1.Text = "Прямоугольник";

this.radioButton1.UseVisualStyleBackColor = true;

this.radioButton1.CheckedChanged += new System.EventHandler(this.radioButton1\_CheckedChanged);

//

// groupBox2

//

this.groupBox2.Controls.Add(this.textBox7);

this.groupBox2.Controls.Add(this.label7);

this.groupBox2.Controls.Add(this.textBox8);

this.groupBox2.Controls.Add(this.label8);

this.groupBox2.Controls.Add(this.textBox6);

this.groupBox2.Controls.Add(this.label6);

this.groupBox2.Controls.Add(this.textBox5);

this.groupBox2.Controls.Add(this.label5);

this.groupBox2.Controls.Add(this.textBox3);

this.groupBox2.Controls.Add(this.label3);

this.groupBox2.Controls.Add(this.textBox4);

this.groupBox2.Controls.Add(this.label4);

this.groupBox2.Controls.Add(this.textBox2);

this.groupBox2.Controls.Add(this.label2);

this.groupBox2.Controls.Add(this.textBox1);

this.groupBox2.Controls.Add(this.label1);

this.groupBox2.Location = new System.Drawing.Point(13, 133);

this.groupBox2.Name = "groupBox2";

this.groupBox2.Size = new System.Drawing.Size(252, 180);

this.groupBox2.TabIndex = 2;

this.groupBox2.TabStop = false;

this.groupBox2.Text = "Координаты";

//

// textBox7

//

this.textBox7.Location = new System.Drawing.Point(58, 126);

this.textBox7.Name = "textBox7";

this.textBox7.ReadOnly = true;

this.textBox7.Size = new System.Drawing.Size(77, 20);

this.textBox7.TabIndex = 15;

this.textBox7.Text = "-30";

//

// label7

//

this.label7.AutoSize = true;

this.label7.Location = new System.Drawing.Point(9, 155);

this.label7.Name = "label7";

this.label7.Size = new System.Drawing.Size(41, 13);

this.label7.TabIndex = 14;

this.label7.Text = "Угол 2";

//

// textBox8

//

this.textBox8.Location = new System.Drawing.Point(58, 152);

this.textBox8.Name = "textBox8";

this.textBox8.ReadOnly = true;

this.textBox8.Size = new System.Drawing.Size(77, 20);

this.textBox8.TabIndex = 13;

this.textBox8.Text = "20";

//

// label8

//

this.label8.AutoSize = true;

this.label8.Location = new System.Drawing.Point(9, 129);

this.label8.Name = "label8";

this.label8.Size = new System.Drawing.Size(41, 13);

this.label8.TabIndex = 12;

this.label8.Text = "Угол 1";

//

// textBox6

//

this.textBox6.Location = new System.Drawing.Point(58, 100);

this.textBox6.Name = "textBox6";

this.textBox6.Size = new System.Drawing.Size(77, 20);

this.textBox6.TabIndex = 11;

this.textBox6.Text = "100";

//

// label6

//

this.label6.AutoSize = true;

this.label6.Location = new System.Drawing.Point(9, 103);

this.label6.Name = "label6";

this.label6.Size = new System.Drawing.Size(45, 13);

this.label6.TabIndex = 10;

this.label6.Text = "Высота";

//

// textBox5

//

this.textBox5.Location = new System.Drawing.Point(58, 74);

this.textBox5.Name = "textBox5";

this.textBox5.Size = new System.Drawing.Size(77, 20);

this.textBox5.TabIndex = 9;

this.textBox5.Text = "100";

//

// label5

//

this.label5.AutoSize = true;

this.label5.Location = new System.Drawing.Point(9, 77);

this.label5.Name = "label5";

this.label5.Size = new System.Drawing.Size(46, 13);

this.label5.TabIndex = 8;

this.label5.Text = "Ширина";

//

// textBox3

//

this.textBox3.Location = new System.Drawing.Point(141, 22);

this.textBox3.Name = "textBox3";

this.textBox3.ReadOnly = true;

this.textBox3.Size = new System.Drawing.Size(77, 20);

this.textBox3.TabIndex = 7;

this.textBox3.Text = "100";

//

// label3

//

this.label3.AutoSize = true;

this.label3.Location = new System.Drawing.Point(115, 51);

this.label3.Name = "label3";

this.label3.Size = new System.Drawing.Size(20, 13);

this.label3.TabIndex = 6;

this.label3.Text = "Y2";

//

// textBox4

//

this.textBox4.Location = new System.Drawing.Point(141, 48);

this.textBox4.Name = "textBox4";

this.textBox4.ReadOnly = true;

this.textBox4.Size = new System.Drawing.Size(77, 20);

this.textBox4.TabIndex = 5;

this.textBox4.Text = "100";

//

// label4

//

this.label4.AutoSize = true;

this.label4.Location = new System.Drawing.Point(115, 25);

this.label4.Name = "label4";

this.label4.Size = new System.Drawing.Size(20, 13);

this.label4.TabIndex = 4;

this.label4.Text = "Y1";

//

// textBox2

//

this.textBox2.Location = new System.Drawing.Point(32, 48);

this.textBox2.Name = "textBox2";

this.textBox2.Size = new System.Drawing.Size(77, 20);

this.textBox2.TabIndex = 3;

this.textBox2.Text = "0";

//

// label2

//

this.label2.AutoSize = true;

this.label2.Location = new System.Drawing.Point(6, 51);

this.label2.Name = "label2";

this.label2.Size = new System.Drawing.Size(20, 13);

this.label2.TabIndex = 2;

this.label2.Text = "X2";

//

// textBox1

//

this.textBox1.Location = new System.Drawing.Point(32, 22);

this.textBox1.Name = "textBox1";

this.textBox1.Size = new System.Drawing.Size(77, 20);

this.textBox1.TabIndex = 1;

this.textBox1.Text = "0";

//

// label1

//

this.label1.AutoSize = true;

this.label1.Location = new System.Drawing.Point(6, 25);

this.label1.Name = "label1";

this.label1.Size = new System.Drawing.Size(20, 13);

this.label1.TabIndex = 0;

this.label1.Text = "X1";

//

// groupBox3

//

this.groupBox3.Controls.Add(this.numericUpDown1);

this.groupBox3.Controls.Add(this.panel2);

this.groupBox3.Controls.Add(this.label12);

this.groupBox3.Controls.Add(this.label11);

this.groupBox3.Controls.Add(this.textBox11);

this.groupBox3.Controls.Add(this.trackBar3);

this.groupBox3.Controls.Add(this.label10);

this.groupBox3.Controls.Add(this.textBox10);

this.groupBox3.Controls.Add(this.trackBar2);

this.groupBox3.Controls.Add(this.label9);

this.groupBox3.Controls.Add(this.textBox9);

this.groupBox3.Controls.Add(this.trackBar1);

this.groupBox3.Location = new System.Drawing.Point(13, 319);

this.groupBox3.Name = "groupBox3";

this.groupBox3.Size = new System.Drawing.Size(252, 263);

this.groupBox3.TabIndex = 3;

this.groupBox3.TabStop = false;

this.groupBox3.Text = "Перо";

//

// numericUpDown1

//

this.numericUpDown1.Location = new System.Drawing.Point(70, 174);

this.numericUpDown1.Name = "numericUpDown1";

this.numericUpDown1.Size = new System.Drawing.Size(176, 20);

this.numericUpDown1.TabIndex = 11;

this.numericUpDown1.Value = new decimal(new int[] {

1,

0,

0,

0});

this.numericUpDown1.ValueChanged += new System.EventHandler(this.numericUpDown1\_ValueChanged);

//

// panel2

//

this.panel2.BackColor = System.Drawing.Color.White;

this.panel2.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;

this.panel2.Location = new System.Drawing.Point(14, 199);

this.panel2.Name = "panel2";

this.panel2.Size = new System.Drawing.Size(232, 50);

this.panel2.TabIndex = 1;

//

// label12

//

this.label12.AutoSize = true;

this.label12.Location = new System.Drawing.Point(11, 176);

this.label12.Name = "label12";

this.label12.Size = new System.Drawing.Size(53, 13);

this.label12.TabIndex = 10;

this.label12.Text = "Толщина";

//

// label11

//

this.label11.AutoSize = true;

this.label11.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(204)));

this.label11.ForeColor = System.Drawing.Color.Blue;

this.label11.Location = new System.Drawing.Point(8, 122);

this.label11.Name = "label11";

this.label11.Size = new System.Drawing.Size(20, 20);

this.label11.TabIndex = 8;

this.label11.Text = "B";

//

// textBox11

//

this.textBox11.Location = new System.Drawing.Point(173, 122);

this.textBox11.Name = "textBox11";

this.textBox11.ReadOnly = true;

this.textBox11.Size = new System.Drawing.Size(73, 20);

this.textBox11.TabIndex = 7;

this.textBox11.Text = "0";

//

// trackBar3

//

this.trackBar3.Location = new System.Drawing.Point(32, 122);

this.trackBar3.Maximum = 255;

this.trackBar3.Name = "trackBar3";

this.trackBar3.Size = new System.Drawing.Size(135, 45);

this.trackBar3.TabIndex = 6;

this.trackBar3.Scroll += new System.EventHandler(this.trackBar3\_Scroll);

//

// label10

//

this.label10.AutoSize = true;

this.label10.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(204)));

this.label10.ForeColor = System.Drawing.Color.Green;

this.label10.Location = new System.Drawing.Point(8, 71);

this.label10.Name = "label10";

this.label10.Size = new System.Drawing.Size(22, 20);

this.label10.TabIndex = 5;

this.label10.Text = "G";

//

// textBox10

//

this.textBox10.Location = new System.Drawing.Point(173, 71);

this.textBox10.Name = "textBox10";

this.textBox10.ReadOnly = true;

this.textBox10.Size = new System.Drawing.Size(73, 20);

this.textBox10.TabIndex = 4;

this.textBox10.Text = "0";

//

// trackBar2

//

this.trackBar2.Location = new System.Drawing.Point(32, 71);

this.trackBar2.Maximum = 255;

this.trackBar2.Name = "trackBar2";

this.trackBar2.Size = new System.Drawing.Size(135, 45);

this.trackBar2.TabIndex = 3;

this.trackBar2.Scroll += new System.EventHandler(this.trackBar2\_Scroll);

//

// label9

//

this.label9.AutoSize = true;

this.label9.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(204)));

this.label9.ForeColor = System.Drawing.Color.Red;

this.label9.Location = new System.Drawing.Point(8, 20);

this.label9.Name = "label9";

this.label9.Size = new System.Drawing.Size(21, 20);

this.label9.TabIndex = 2;

this.label9.Text = "R";

//

// textBox9

//

this.textBox9.Location = new System.Drawing.Point(173, 20);

this.textBox9.Name = "textBox9";

this.textBox9.ReadOnly = true;

this.textBox9.Size = new System.Drawing.Size(73, 20);

this.textBox9.TabIndex = 1;

this.textBox9.Text = "0";

//

// trackBar1

//

this.trackBar1.Location = new System.Drawing.Point(32, 20);

this.trackBar1.Maximum = 255;

this.trackBar1.Name = "trackBar1";

this.trackBar1.Size = new System.Drawing.Size(135, 45);

this.trackBar1.TabIndex = 0;

this.trackBar1.Scroll += new System.EventHandler(this.trackBar1\_Scroll);

//

// panel1

//

this.panel1.BackColor = System.Drawing.Color.White;

this.panel1.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;

this.panel1.Location = new System.Drawing.Point(271, 12);

this.panel1.Name = "panel1";

this.panel1.Size = new System.Drawing.Size(750, 715);

this.panel1.TabIndex = 0;

//

// button1

//

this.button1.Location = new System.Drawing.Point(13, 589);

this.button1.Name = "button1";

this.button1.Size = new System.Drawing.Size(252, 23);

this.button1.TabIndex = 4;

this.button1.Text = "Нарисовать";

this.button1.UseVisualStyleBackColor = true;

this.button1.Click += new System.EventHandler(this.button1\_Click);

//

// button2

//

this.button2.Location = new System.Drawing.Point(13, 618);

this.button2.Name = "button2";

this.button2.Size = new System.Drawing.Size(252, 23);

this.button2.TabIndex = 5;

this.button2.Text = "Очистить все";

this.button2.UseVisualStyleBackColor = true;

this.button2.Click += new System.EventHandler(this.button2\_Click);

//

// button3

//

this.button3.Location = new System.Drawing.Point(13, 704);

this.button3.Name = "button3";

this.button3.Size = new System.Drawing.Size(252, 23);

this.button3.TabIndex = 6;

this.button3.Text = "Написать текст";

this.button3.UseVisualStyleBackColor = true;

this.button3.Click += new System.EventHandler(this.button3\_Click);

//

// textBox12

//

this.textBox12.Location = new System.Drawing.Point(13, 678);

this.textBox12.Name = "textBox12";

this.textBox12.Size = new System.Drawing.Size(252, 20);

this.textBox12.TabIndex = 7;

//

// Form3

//

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(1027, 746);

this.Controls.Add(this.textBox12);

this.Controls.Add(this.button3);

this.Controls.Add(this.button2);

this.Controls.Add(this.button1);

this.Controls.Add(this.groupBox3);

this.Controls.Add(this.groupBox2);

this.Controls.Add(this.groupBox1);

this.Controls.Add(this.panel1);

this.Name = "Form3";

this.Text = "Третья форма";

this.Load += new System.EventHandler(this.Form4\_Load);

this.groupBox1.ResumeLayout(false);

this.groupBox1.PerformLayout();

this.groupBox2.ResumeLayout(false);

this.groupBox2.PerformLayout();

this.groupBox3.ResumeLayout(false);

this.groupBox3.PerformLayout();

((System.ComponentModel.ISupportInitialize)(this.numericUpDown1)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.trackBar3)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.trackBar2)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.trackBar1)).EndInit();

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.GroupBox groupBox1;

private System.Windows.Forms.RadioButton radioButton2;

private System.Windows.Forms.RadioButton radioButton1;

private System.Windows.Forms.RadioButton radioButton4;

private System.Windows.Forms.RadioButton radioButton3;

private System.Windows.Forms.GroupBox groupBox2;

private System.Windows.Forms.TextBox textBox6;

private System.Windows.Forms.Label label6;

private System.Windows.Forms.TextBox textBox5;

private System.Windows.Forms.Label label5;

private System.Windows.Forms.TextBox textBox3;

private System.Windows.Forms.Label label3;

private System.Windows.Forms.TextBox textBox4;

private System.Windows.Forms.Label label4;

private System.Windows.Forms.TextBox textBox2;

private System.Windows.Forms.Label label2;

private System.Windows.Forms.TextBox textBox1;

private System.Windows.Forms.Label label1;

private System.Windows.Forms.TextBox textBox7;

private System.Windows.Forms.Label label7;

private System.Windows.Forms.TextBox textBox8;

private System.Windows.Forms.Label label8;

private System.Windows.Forms.GroupBox groupBox3;

private System.Windows.Forms.Label label12;

private System.Windows.Forms.Label label11;

private System.Windows.Forms.TextBox textBox11;

private System.Windows.Forms.TrackBar trackBar3;

private System.Windows.Forms.Label label10;

private System.Windows.Forms.TextBox textBox10;

private System.Windows.Forms.TrackBar trackBar2;

private System.Windows.Forms.Label label9;

private System.Windows.Forms.TextBox textBox9;

private System.Windows.Forms.TrackBar trackBar1;

private System.Windows.Forms.Panel panel2;

private System.Windows.Forms.Panel panel1;

private System.Windows.Forms.Button button1;

private System.Windows.Forms.Button button2;

private System.Windows.Forms.NumericUpDown numericUpDown1;

private System.Windows.Forms.Button button3;

private System.Windows.Forms.TextBox textBox12;

}

}

Файл Form3.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 Task

{

public partial class Form3 : Form

{

public Form3()

{

InitializeComponent();

}

Pen pn;

Graphics g;

Graphics pre;

static int red = 0;

static int green = 0;

static int blue = 0;

private void Form4\_Load(object sender, EventArgs e)

{

pn = new Pen(Color.Black, 5);

pre = panel2.CreateGraphics();

g = panel1.CreateGraphics();

UpdateTextBox();

UpdateColor();

}

private void UpdateColor()

{

textBox9.Text = red.ToString();

textBox10.Text = green.ToString();

textBox11.Text = blue.ToString();

trackBar1.Value = red;

trackBar2.Value = green;

trackBar3.Value = blue;

pn.Color = Color.FromArgb(red, green, blue);

pn.Width = (float)numericUpDown1.Value;

pre.Clear(Color.White);

pre.DrawLine(pn, 25, 25, 207, 25);

}

private void UpdateTextBox()

{

if (radioButton1.Checked)

{

textBox1.ReadOnly = false;

textBox2.ReadOnly = false;

textBox3.ReadOnly = true;

textBox4.ReadOnly = true;

textBox5.ReadOnly = false;

textBox6.ReadOnly = false;

textBox7.ReadOnly = true;

textBox8.ReadOnly = true;

}

else if (radioButton2.Checked)

{

textBox1.ReadOnly = false;

textBox2.ReadOnly = false;

textBox3.ReadOnly = true;

textBox4.ReadOnly = true;

textBox5.ReadOnly = false;

textBox6.ReadOnly = false;

textBox7.ReadOnly = true;

textBox8.ReadOnly = true;

}

else if (radioButton3.Checked)

{

textBox1.ReadOnly = false;

textBox2.ReadOnly = false;

textBox3.ReadOnly = false;

textBox4.ReadOnly = false;

textBox5.ReadOnly = true;

textBox6.ReadOnly = true;

textBox7.ReadOnly = true;

textBox8.ReadOnly = true;

}

else

{

textBox1.ReadOnly = false;

textBox2.ReadOnly = false;

textBox3.ReadOnly = true;

textBox4.ReadOnly = true;

textBox5.ReadOnly = false;

textBox6.ReadOnly = false;

textBox7.ReadOnly = false;

textBox8.ReadOnly = false;

}

}

private void trackBar1\_Scroll(object sender, EventArgs e)

{

red = trackBar1.Value;

UpdateColor();

}

private void trackBar2\_Scroll(object sender, EventArgs e)

{

green = trackBar2.Value;

UpdateColor();

}

private void trackBar3\_Scroll(object sender, EventArgs e)

{

blue = trackBar3.Value;

UpdateColor();

}

private void radioButton1\_CheckedChanged(object sender, EventArgs e)

{

UpdateTextBox();

}

private void radioButton2\_CheckedChanged(object sender, EventArgs e)

{

UpdateTextBox();

}

private void radioButton3\_CheckedChanged(object sender, EventArgs e)

{

UpdateTextBox();

}

private void radioButton4\_CheckedChanged(object sender, EventArgs e)

{

UpdateTextBox();

}

private void button2\_Click(object sender, EventArgs e)

{

g.Clear(Color.White);

}

private void numericUpDown1\_ValueChanged(object sender, EventArgs e)

{

UpdateColor();

}

private void button1\_Click(object sender, EventArgs e)

{

float x1 = Convert.ToSingle(textBox1.Text);

float x2 = Convert.ToSingle(textBox2.Text);

float y1 = Convert.ToSingle(textBox3.Text);

float y2 = Convert.ToSingle(textBox4.Text);

float width = Convert.ToSingle(textBox5.Text);

float height = Convert.ToSingle(textBox6.Text);

float angle1 = Convert.ToSingle(textBox7.Text);

float angle2 = Convert.ToSingle(textBox8.Text);

if (radioButton1.Checked)

{

g.DrawRectangle(pn, x1, x2, width, height);

}

else if (radioButton2.Checked)

{

g.DrawEllipse(pn, x1, x2, width, height);

}

else if (radioButton3.Checked)

{

g.DrawLine(pn, x1, x2, y1, y2);

}

else

{

g.DrawPie(pn, x1, x2, width, height, angle1, angle2);

}

}

private void button3\_Click(object sender, EventArgs e)

{

float x1 = Convert.ToSingle(textBox1.Text);

float x2 = Convert.ToSingle(textBox2.Text);

float size = Convert.ToSingle(numericUpDown1.Value);

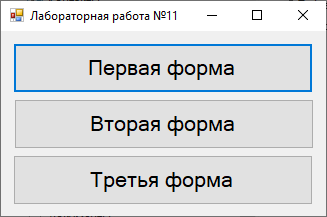
g.DrawString(textBox12.Text, new Font("Arial", size), new SolidBrush(Color.FromArgb(red, green, blue)), new PointF(x1, x2));

}

}

}

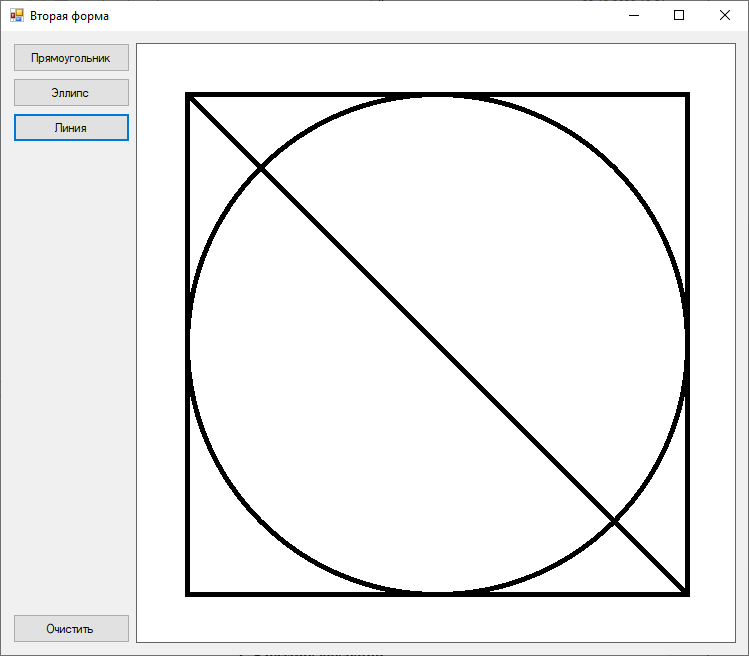
***Скриншоты результатов:***



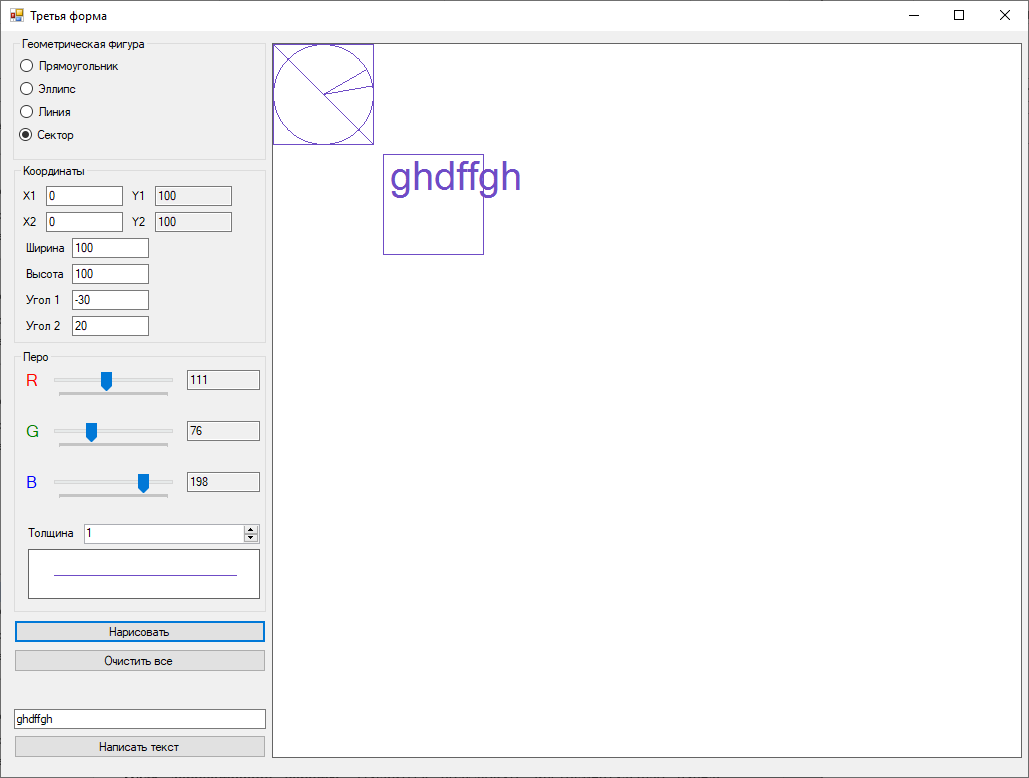
**Рисунок 1. Результат работы программы**



**Рисунок 2. Результат работы программы**



**Рисунок 3. Результат работы программы**



**Рисунок 4. Результат работы программы**