

Защита лабораторной работы

Листинг программы

```
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 WindowsFormsApp3
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void pictureBox1_MouseMove(object sender, MouseEventArgs e)
        {
            if (e.Button == MouseButtons.Left)
            {
                Pen blackPen = new Pen(colorDialog1.Color, 1);

                // Рисовать так:
                Graphics g = Graphics.FromImage(pictureBox1.Image);
                int CursorX = e.X;
                int CursorY = e.Y;
                Point point = new Point(CursorX, CursorY);
                Point previousPoint = new Point(CursorX - 1, CursorY - 1);
                g.DrawLine(blackPen, previousPoint, point);

                blackPen.Dispose();
                g.Dispose();

                pictureBox1.Invalidate();
            }
        }

        private void pictureBox1_MouseDown(object sender, MouseEventArgs e)
        {
        }

        private void сменитьЦветToolStripMenuItem_Click(object sender, EventArgs e)
        {
            if (colorDialog1.ShowDialog() == DialogResult.OK)
            {
            }
        }

        private void сохранитьToolStripMenuItem_Click(object sender, EventArgs e)
        {
            if (saveFileDialog1.ShowDialog() == DialogResult.OK)
            {
                Bitmap bmp = new Bitmap(pictureBox1.Image);
            }
        }
    }
}
```

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        bmp.Save(saveFileDialog1.FileName,
System.Drawing.Imaging.ImageFormat.Bmp);
    }

    }

private void открытьToolStripMenuItem_Click(object sender, EventArgs e)
{
    if (openFileDialog1.ShowDialog() == DialogResult.OK)
    {
        Image image = Image.FromFile(openFileDialog1.FileName);
        int width = image.Width;
        int height = image.Height;
        pictureBox1.Width = width;
        pictureBox1.Height = height;

        Bitmap bmp = new Bitmap(Image.FromFile(openFileDialog1.FileName), width,
height);

        pictureBox1.Image = bmp;
    }
}

private void очиститьToolStripMenuItem_Click(object sender, EventArgs e)
{
    Bitmap b = new Bitmap(pictureBox1.Width, pictureBox1.Height);
    using (Graphics g = Graphics.FromImage(b))
    {
        g.Clear(Color.White);
    }
    pictureBox1.Image = b;
    openFileDialog1.FileName = "";
}

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

private void Form1_Resize(object sender, EventArgs e)
{
    if (openFileDialog1.FileName == "")
    {
        Bitmap b = new Bitmap(this.Width, this.Height);
        using (Graphics g = Graphics.FromImage(b))
        {
            g.Clear(Color.White);
        }
        pictureBox1.Image = b;
    }
    pictureBox1.Width = this.Width;
    pictureBox1.Height = this.Height;
}
}
}

```

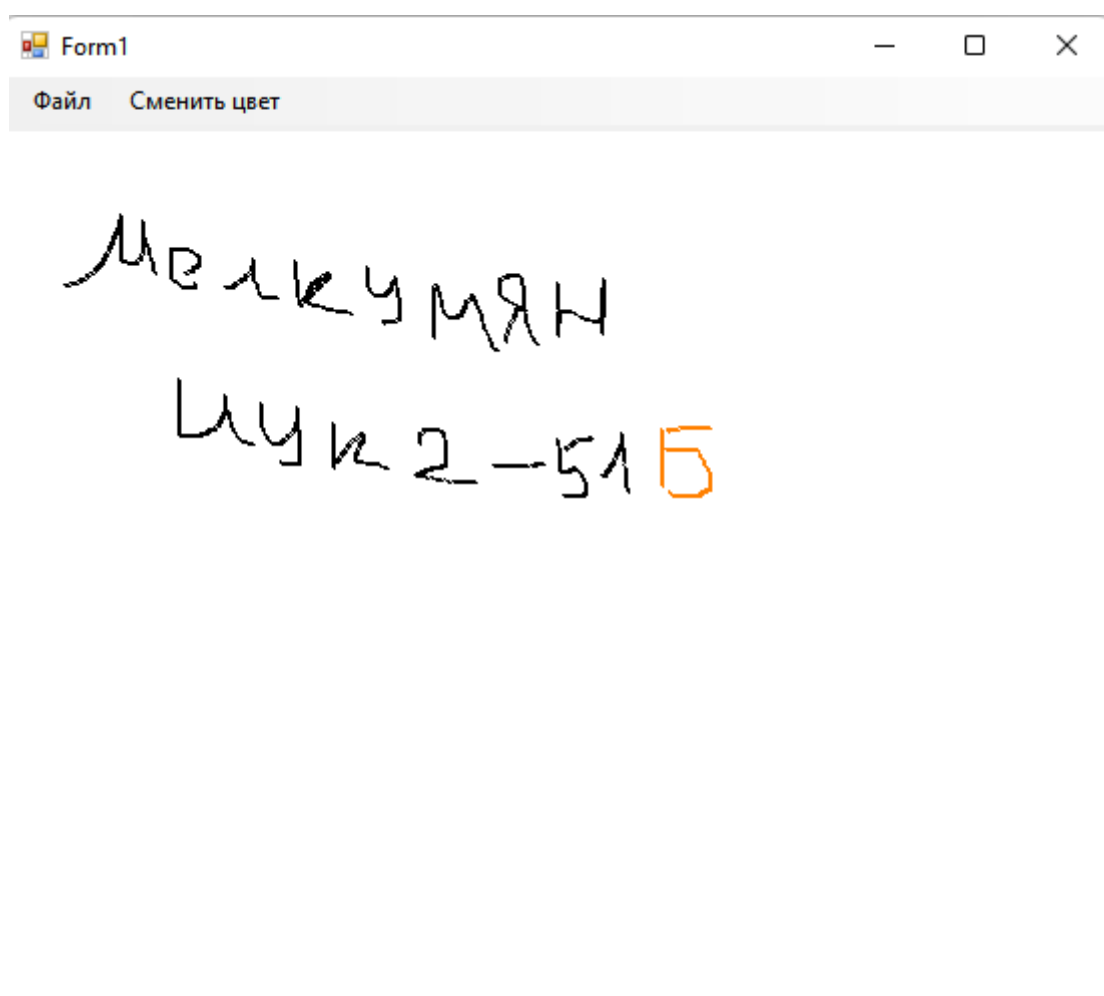


Рис 1. Результат выполнения программы

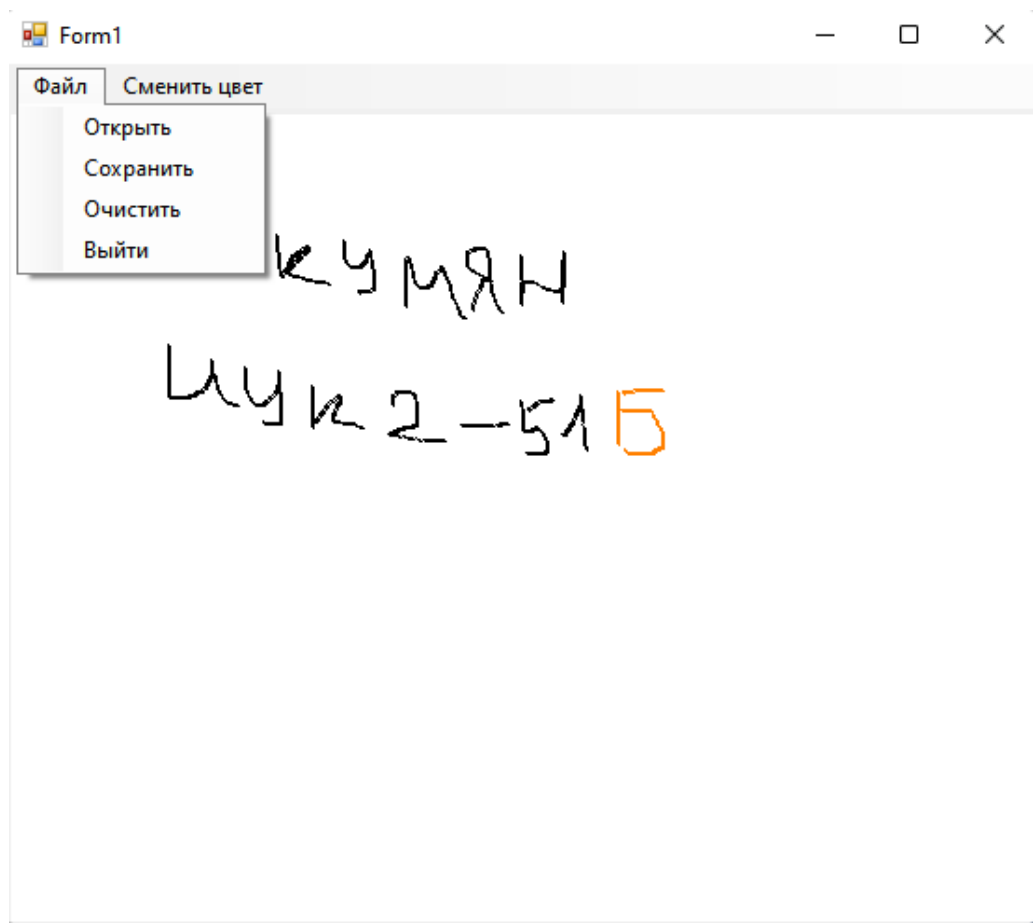


Рис 2. Результат выполнения программы 2

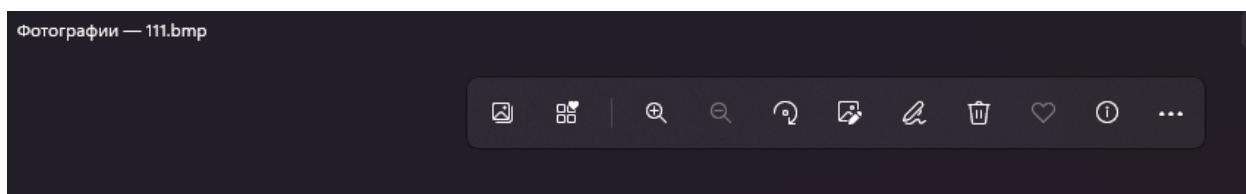


Рис 3. Результат сохранения изображения