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Федеральное государственное бюджетное образовательное учреждение высшего образования

«Сибирский государственный университет телекоммуникаций и информатики»

Кафедра прикладной математики и кибернетики

Отчет по лабораторной работе

по дисциплине «Визуальное программирование»

Лабораторная работа № 4

«Создание файлового менеджера»

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# Постановка задачи

*Задание 1.* Создать форму как показано на рисунке 1.

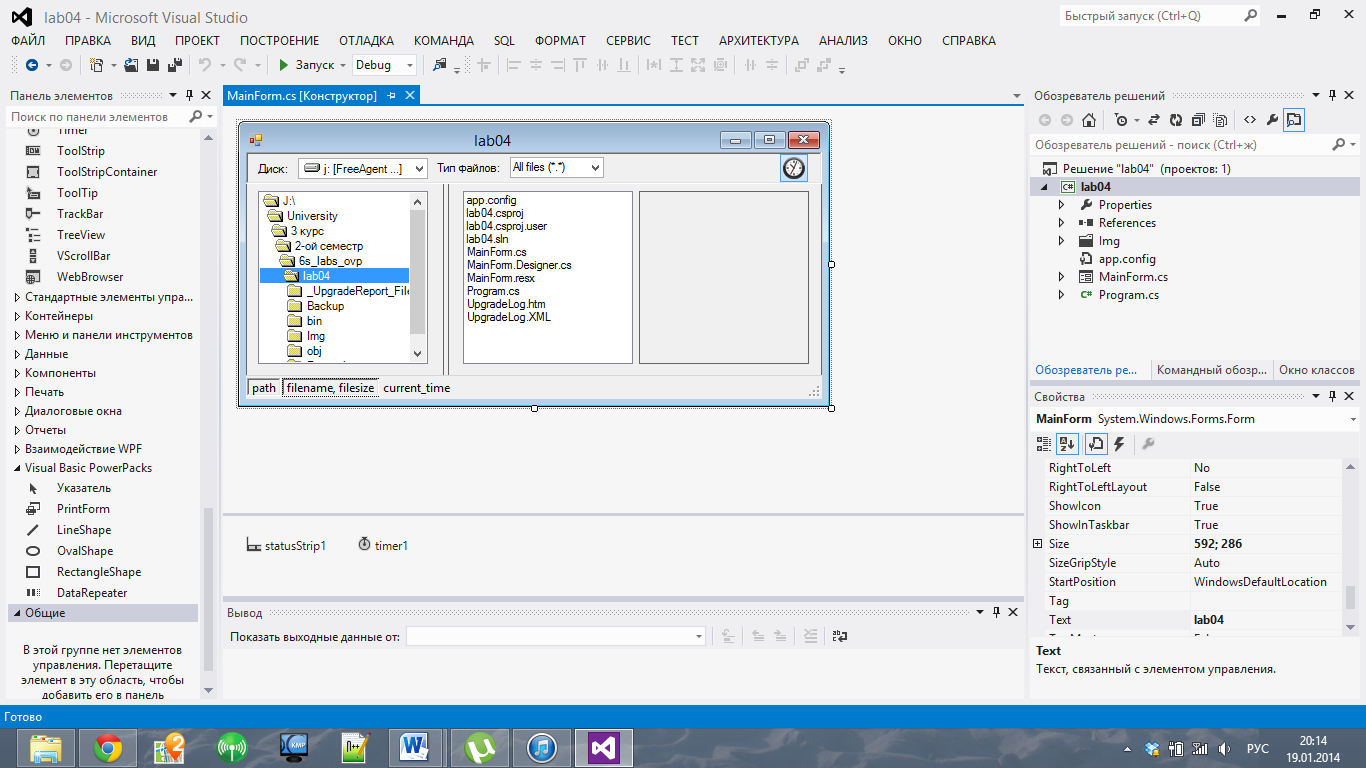


Рис.1

*Задание 2.* Изменить Form1 на рис. 1 (задание 1) следующим образом: использовать для реализации строки состояния вместо компонента Panel компонент StatusBar. Структура компонента StatusBar показана на рис. 2.

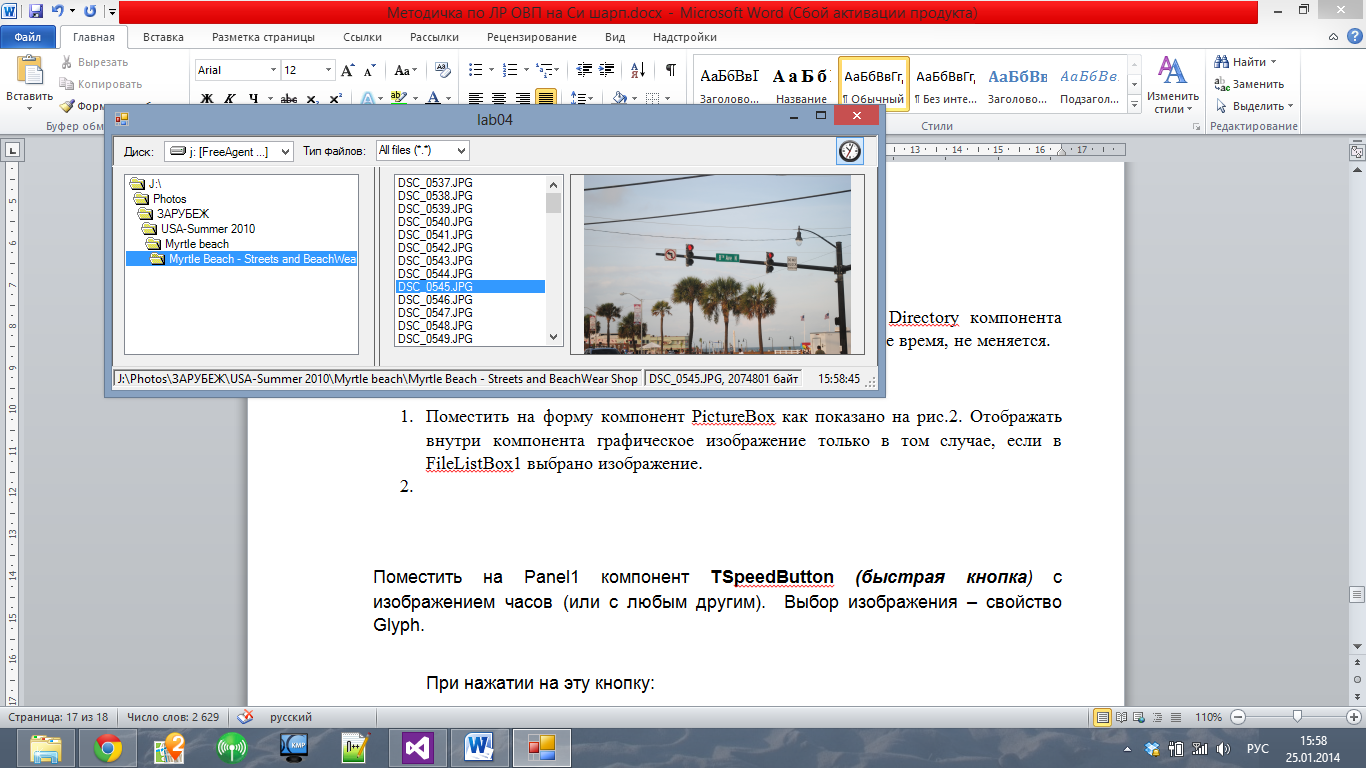


Рис. 2

*Задание 3:*

1. Поместить на форму компонент PictureBox как показано на рис.2. Отображать внутри компонента графическое изображение только в том случае, если в FileListBox1 выбрано изображение.
2. Поместить на Panel1 компонент RadioButton ***(***быстрая кнопка*)* с изображением часов (или с любым другим).

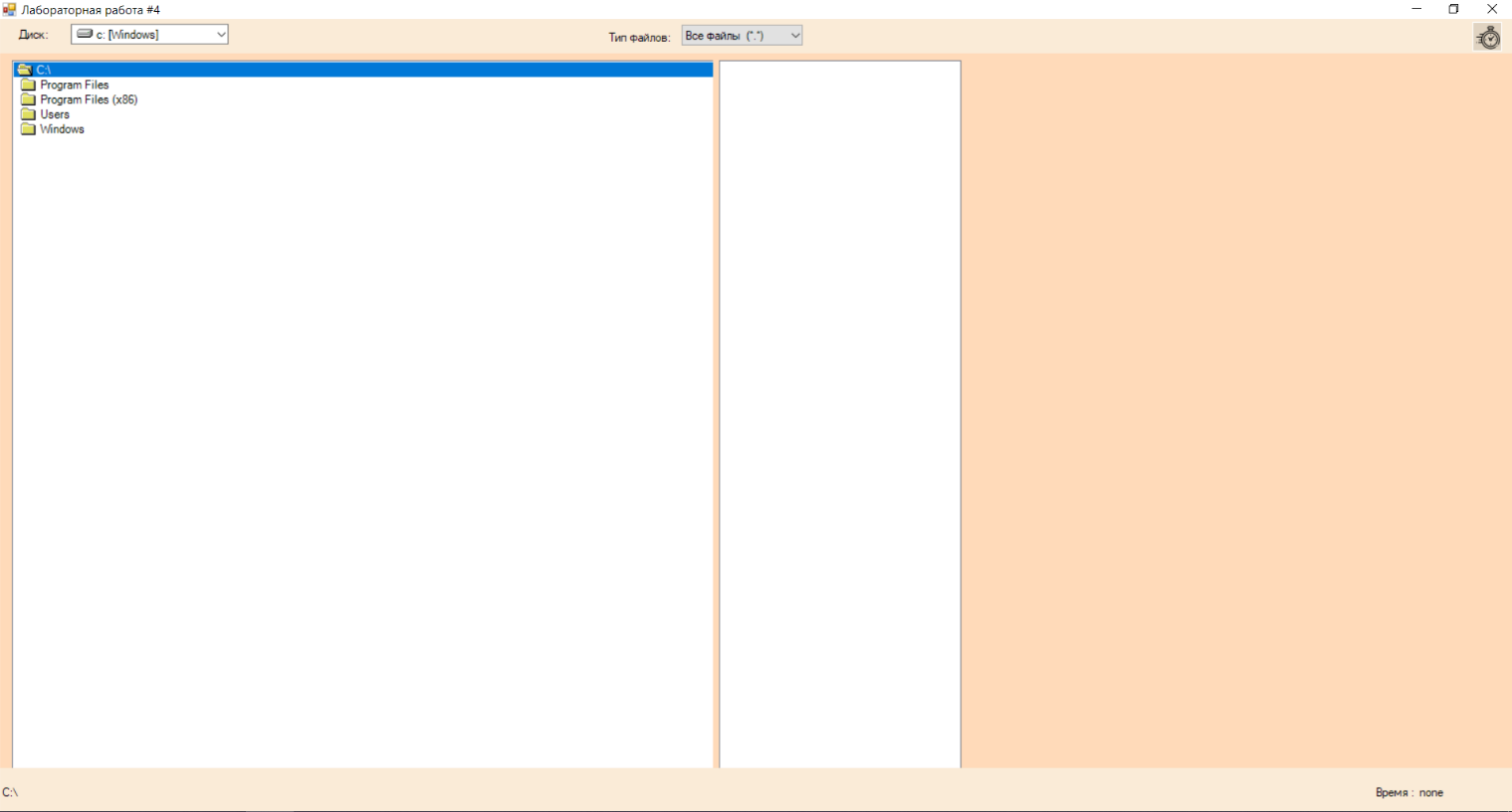
При нажатии на эту кнопку:

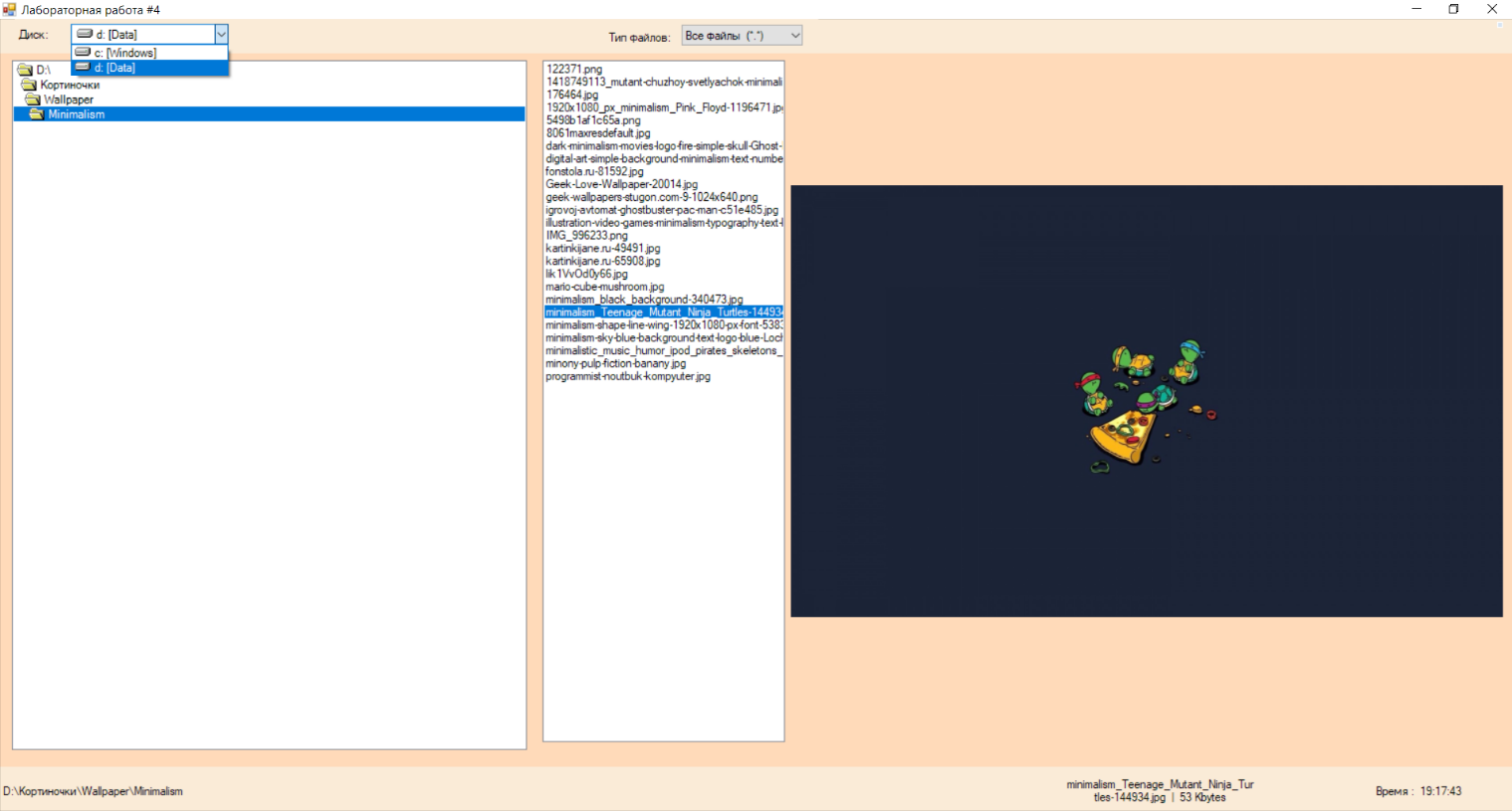
* время в строке статуса должно выключаться;
* состояние кнопки - нажата.

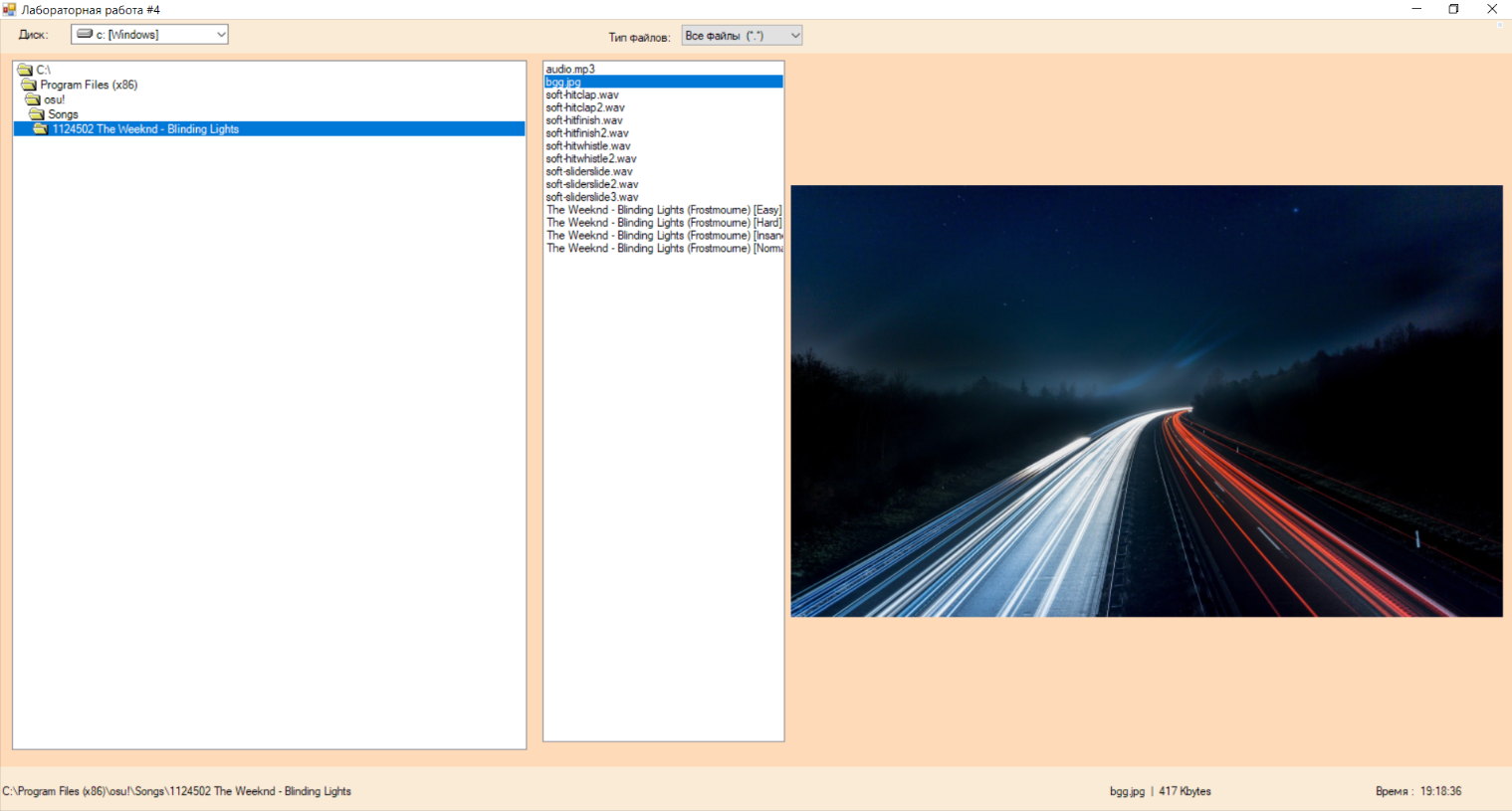
# Описание работы

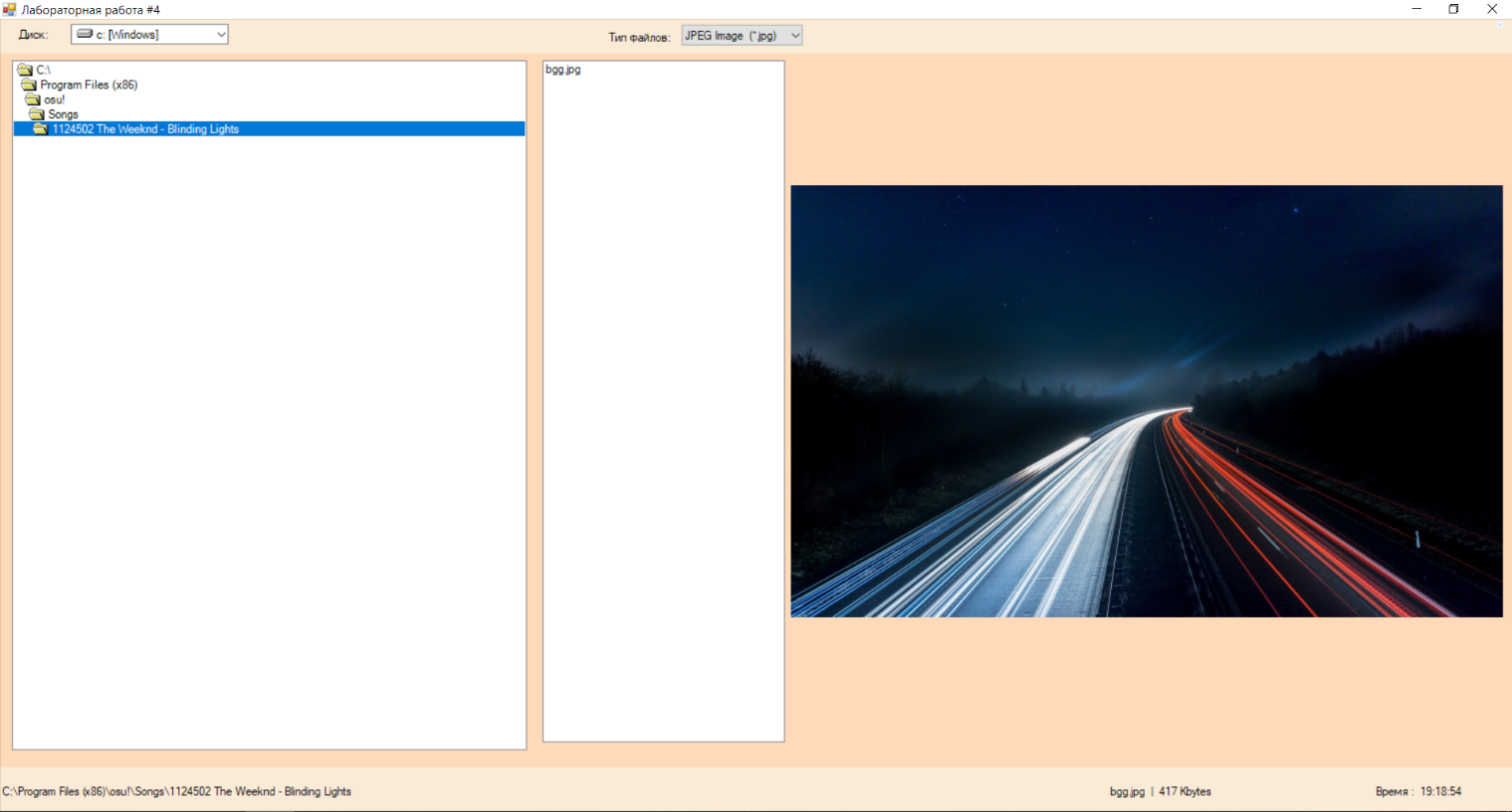
Работа приложения соответствует описанию в методичке, за исключением именования и свойств некоторых элементов.

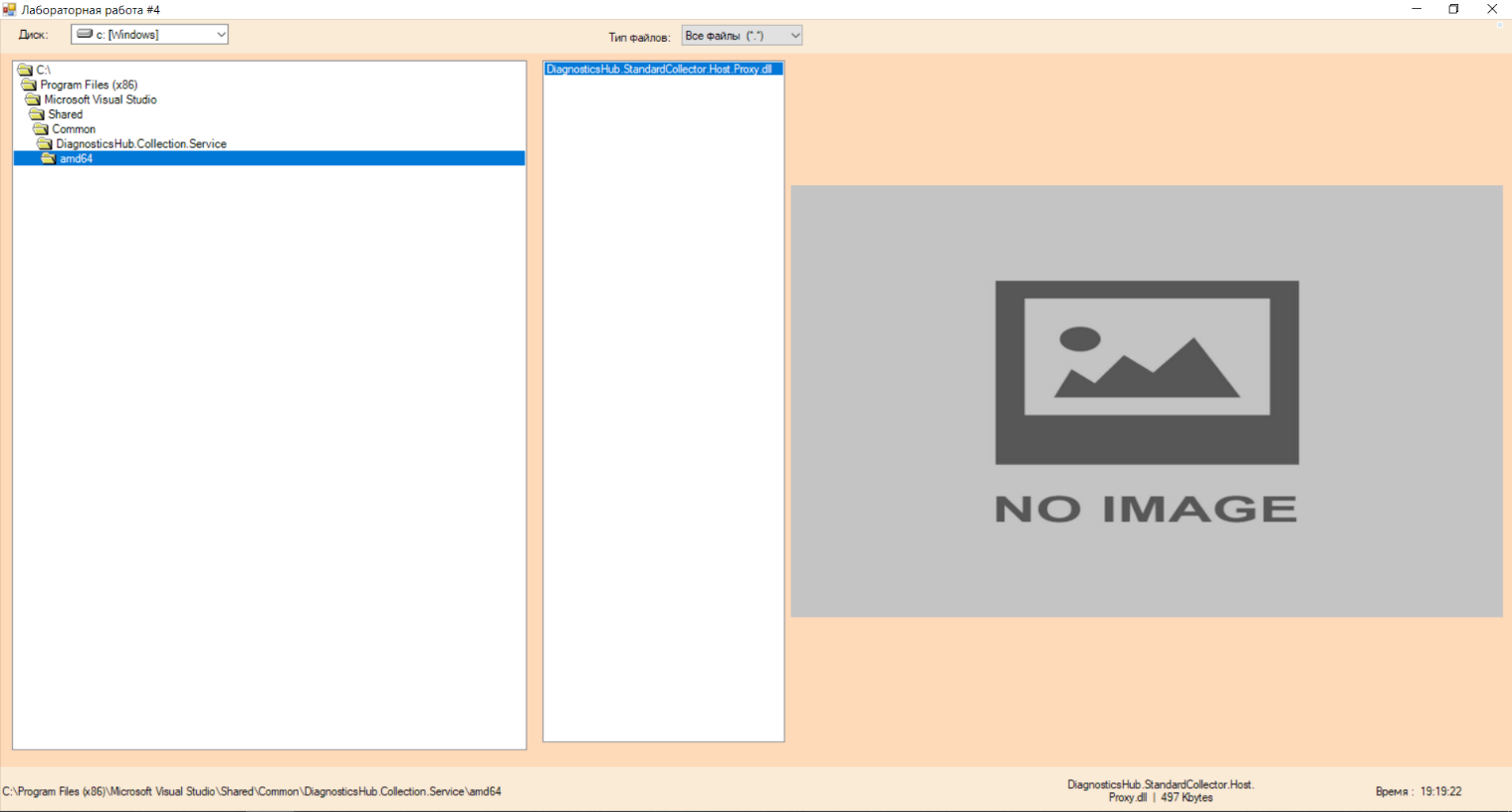
# Примеры работы программы











# *Приложение* Листинг

**Program.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace laboratoryWork\_4

{

static class Program

{

/// <summary>

/// The main entry point for the application.

/// </summary>

[STAThread]

static void Main()

{

Application.EnableVisualStyles();

Application.SetCompatibleTextRenderingDefault(false);

Application.Run(new FormMain());

}

}

}

**FormMain.cs**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.IO;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace laboratoryWork\_4

{

public partial class FormMain : Form

{

public FormMain()

{

InitializeComponent();

}

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

{

type\_comboBox.SelectedIndex = 0;

type\_comboBox\_SelectionChangeCommitted(null, null);

driveListBox.SelectedIndex = 0;

driveListBox\_SelectionChangeCommitted(null, null);

}

private void driveListBox\_SelectionChangeCommitted(object sender, EventArgs e)

{

try

{

dirListBox.Path = driveListBox.Drive.Substring(0,1).ToUpper() +":\\";

dirListBox.SelectedIndex = 0;

dirListBox\_MouseDoubleClick(null, null);

}

catch (System.Exception ex)

{

System.Windows.Forms.MessageBox.Show(ex.Message);

}

}

private void dirListBox\_MouseDoubleClick(object sender, MouseEventArgs e)

{

fileListBox.Path = dirListBox.Path;

try

{

fileListBox.SelectedIndex = 0;

}

catch { }

path\_label.Text = dirListBox.Path;

}

private void type\_comboBox\_SelectionChangeCommitted(object sender, EventArgs e)

{

try

{

if (type\_comboBox.Text == type\_comboBox.Items[0].ToString())

{

fileListBox.Pattern = "\*.\*";

}

else if (type\_comboBox.Text == type\_comboBox.Items[1].ToString())

{

fileListBox.Pattern = "\*.jpg";

}

else if (type\_comboBox.Text == type\_comboBox.Items[2].ToString())

{

fileListBox.Pattern = "\*.bmp";

}

else if (type\_comboBox.Text == type\_comboBox.Items[3].ToString())

{

fileListBox.Pattern = "\*.gif";

}

else if (type\_comboBox.Text == type\_comboBox.Items[4].ToString())

{

fileListBox.Pattern = "\*.png";

}

}

catch (System.Exception ex)

{

System.Windows.Forms.MessageBox.Show(ex.Message);

}

}

private void fileListBox\_SelectedValueChanged(object sender, EventArgs e)

{

if (fileListBox.SelectedItem.ToString() != "")

{

double size;

FileInfo file = new FileInfo((fileListBox.Path + "\\" + fileListBox.SelectedItem));

size = file.Length / 1024;

file\_label.Text = fileListBox.SelectedItem + " | " + size + " Kbytes";

pictureBox.SizeMode = PictureBoxSizeMode.StretchImage;

Image img;

try

{

img = Image.FromFile(file.ToString());

}

catch

{

img = Properties.Resources.no;

}

pictureBox.Image = img;

}

else

{

pictureBox.Image = null;

}

}

private void timer\_Tick(object sender, EventArgs e)

{

DateTime time = DateTime.Now;

time\_label.Text = "Время : " + time.ToLongTimeString();

}

private void checkBox1\_CheckedChanged(object sender, EventArgs e)

{

timer.Enabled = !timer.Enabled;

if (!timer.Enabled)

{

time\_label.Text = "Время : none";

}

}

}

}

**FormMain.Designer.cs**

namespace laboratoryWork\_4

{

partial class FormMain

{

/// <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.panel\_top = new System.Windows.Forms.Panel();

this.checkBox1 = new System.Windows.Forms.CheckBox();

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

this.driveListBox = new Microsoft.VisualBasic.Compatibility.VB6.DriveListBox();

this.type\_comboBox = new System.Windows.Forms.ComboBox();

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

this.panel\_main = new System.Windows.Forms.Panel();

this.splitContainer1 = new System.Windows.Forms.SplitContainer();

this.dirListBox = new Microsoft.VisualBasic.Compatibility.VB6.DirListBox();

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

this.fileListBox = new Microsoft.VisualBasic.Compatibility.VB6.FileListBox();

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

this.panel3 = new System.Windows.Forms.Panel();

this.time\_label = new System.Windows.Forms.Label();

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

this.file\_label = new System.Windows.Forms.Label();

this.path\_panel = new System.Windows.Forms.Panel();

this.path\_label = new System.Windows.Forms.Label();

this.timer = new System.Windows.Forms.Timer(this.components);

this.panel\_top.SuspendLayout();

this.panel\_main.SuspendLayout();

((System.ComponentModel.ISupportInitialize) (this.splitContainer1)).BeginInit();

this.splitContainer1.Panel1.SuspendLayout();

this.splitContainer1.Panel2.SuspendLayout();

this.splitContainer1.SuspendLayout();

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

this.panel1.SuspendLayout();

this.panel3.SuspendLayout();

this.panel2.SuspendLayout();

this.path\_panel.SuspendLayout();

this.SuspendLayout();

//

// panel\_top

//

this.panel\_top.Anchor = ((System.Windows.Forms.AnchorStyles) (((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Left) | System.Windows.Forms.AnchorStyles.Right)));

this.panel\_top.Controls.Add(this.checkBox1);

this.panel\_top.Controls.Add(this.label1);

this.panel\_top.Controls.Add(this.driveListBox);

this.panel\_top.Controls.Add(this.type\_comboBox);

this.panel\_top.Controls.Add(this.label2);

this.panel\_top.Location = new System.Drawing.Point(0, 0);

this.panel\_top.Margin = new System.Windows.Forms.Padding(4);

this.panel\_top.Name = "panel\_top";

this.panel\_top.Size = new System.Drawing.Size(1069, 44);

this.panel\_top.TabIndex = 3;

//

// checkBox1

//

this.checkBox1.Anchor = ((System.Windows.Forms.AnchorStyles) ((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Right)));

this.checkBox1.Appearance = System.Windows.Forms.Appearance.Button;

this.checkBox1.AutoSize = true;

this.checkBox1.CheckAlign = System.Drawing.ContentAlignment.MiddleCenter;

this.checkBox1.Checked = true;

this.checkBox1.CheckState = System.Windows.Forms.CheckState.Checked;

this.checkBox1.Cursor = System.Windows.Forms.Cursors.Hand;

this.checkBox1.FlatAppearance.BorderColor = System.Drawing.Color.White;

this.checkBox1.FlatAppearance.CheckedBackColor = System.Drawing.SystemColors.GradientInactiveCaption;

this.checkBox1.FlatStyle = System.Windows.Forms.FlatStyle.Flat;

this.checkBox1.Location = new System.Drawing.Point(1047, 4);

this.checkBox1.Margin = new System.Windows.Forms.Padding(4);

this.checkBox1.Name = "checkBox1";

this.checkBox1.Size = new System.Drawing.Size(6, 6);

this.checkBox1.TabIndex = 6;

this.checkBox1.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;

this.checkBox1.UseVisualStyleBackColor = true;

this.checkBox1.CheckedChanged += new System.EventHandler(this.checkBox1\_CheckedChanged);

//

// label1

//

this.label1.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;

this.label1.Location = new System.Drawing.Point(11, 0);

this.label1.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);

this.label1.Name = "label1";

this.label1.Size = new System.Drawing.Size(71, 37);

this.label1.TabIndex = 3;

this.label1.Text = "Диск:";

this.label1.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;

//

// driveListBox

//

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

this.driveListBox.FormattingEnabled = true;

this.driveListBox.Location = new System.Drawing.Point(96, 6);

this.driveListBox.Margin = new System.Windows.Forms.Padding(4);

this.driveListBox.Name = "driveListBox";

this.driveListBox.Size = new System.Drawing.Size(212, 23);

this.driveListBox.TabIndex = 0;

this.driveListBox.SelectionChangeCommitted += new System.EventHandler(this.driveListBox\_SelectionChangeCommitted);

//

// type\_comboBox

//

this.type\_comboBox.Anchor = ((System.Windows.Forms.AnchorStyles) ((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom)));

this.type\_comboBox.DropDownStyle = System.Windows.Forms.ComboBoxStyle.DropDownList;

this.type\_comboBox.FormattingEnabled = true;

this.type\_comboBox.Items.AddRange(new object[] {"Все файлы (\*.\*)", "JPEG Image (\*.jpg)", "itmap Image (\*.bmp)", "GIF image (\*.gif)", "PNG Image (\*.png)", "Все файлы (\*.\*)", "JPEG Image (\*.jpg)", "itmap Image (\*.bmp)", "GIF image (\*.gif)", "PNG Image (\*.png)"});

this.type\_comboBox.Location = new System.Drawing.Point(432, 7);

this.type\_comboBox.Margin = new System.Windows.Forms.Padding(4);

this.type\_comboBox.Name = "type\_comboBox";

this.type\_comboBox.Size = new System.Drawing.Size(163, 24);

this.type\_comboBox.TabIndex = 1;

this.type\_comboBox.SelectionChangeCommitted += new System.EventHandler(this.type\_comboBox\_SelectionChangeCommitted);

//

// label2

//

this.label2.Anchor = ((System.Windows.Forms.AnchorStyles) ((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom)));

this.label2.Location = new System.Drawing.Point(328, 0);

this.label2.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);

this.label2.Name = "label2";

this.label2.Size = new System.Drawing.Size(96, 44);

this.label2.TabIndex = 2;

this.label2.Text = "Тип файлов:";

this.label2.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;

//

// panel\_main

//

this.panel\_main.Anchor = ((System.Windows.Forms.AnchorStyles) ((((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) | System.Windows.Forms.AnchorStyles.Left) | System.Windows.Forms.AnchorStyles.Right)));

this.panel\_main.BackColor = System.Drawing.Color.PeachPuff;

this.panel\_main.Controls.Add(this.splitContainer1);

this.panel\_main.Location = new System.Drawing.Point(0, 43);

this.panel\_main.Margin = new System.Windows.Forms.Padding(4);

this.panel\_main.Name = "panel\_main";

this.panel\_main.Size = new System.Drawing.Size(1069, 529);

this.panel\_main.TabIndex = 1;

//

// splitContainer1

//

this.splitContainer1.Dock = System.Windows.Forms.DockStyle.Fill;

this.splitContainer1.Location = new System.Drawing.Point(0, 0);

this.splitContainer1.Margin = new System.Windows.Forms.Padding(4);

this.splitContainer1.Name = "splitContainer1";

//

// splitContainer1.Panel1

//

this.splitContainer1.Panel1.Controls.Add(this.dirListBox);

//

// splitContainer1.Panel2

//

this.splitContainer1.Panel2.Controls.Add(this.pictureBox);

this.splitContainer1.Panel2.Controls.Add(this.fileListBox);

this.splitContainer1.Size = new System.Drawing.Size(1069, 529);

this.splitContainer1.SplitterDistance = 378;

this.splitContainer1.SplitterWidth = 5;

this.splitContainer1.TabIndex = 4;

//

// dirListBox

//

this.dirListBox.Anchor = ((System.Windows.Forms.AnchorStyles) ((((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) | System.Windows.Forms.AnchorStyles.Left) | System.Windows.Forms.AnchorStyles.Right)));

this.dirListBox.Cursor = System.Windows.Forms.Cursors.Default;

this.dirListBox.FormattingEnabled = true;

this.dirListBox.IntegralHeight = false;

this.dirListBox.Location = new System.Drawing.Point(16, 9);

this.dirListBox.Margin = new System.Windows.Forms.Padding(4);

this.dirListBox.Name = "dirListBox";

this.dirListBox.Size = new System.Drawing.Size(348, 499);

this.dirListBox.TabIndex = 3;

this.dirListBox.MouseDoubleClick += new System.Windows.Forms.MouseEventHandler(this.dirListBox\_MouseDoubleClick);

//

// pictureBox

//

this.pictureBox.Anchor = ((System.Windows.Forms.AnchorStyles) ((((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) | System.Windows.Forms.AnchorStyles.Left) | System.Windows.Forms.AnchorStyles.Right)));

this.pictureBox.ErrorImage = null;

this.pictureBox.Location = new System.Drawing.Point(340, 165);

this.pictureBox.Margin = new System.Windows.Forms.Padding(4);

this.pictureBox.Name = "pictureBox";

this.pictureBox.Size = new System.Drawing.Size(328, 177);

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

this.pictureBox.TabIndex = 1;

this.pictureBox.TabStop = false;

//

// fileListBox

//

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

this.fileListBox.FormattingEnabled = true;

this.fileListBox.Location = new System.Drawing.Point(4, 9);

this.fileListBox.Margin = new System.Windows.Forms.Padding(4);

this.fileListBox.Name = "fileListBox";

this.fileListBox.Pattern = "\*.\*";

this.fileListBox.Size = new System.Drawing.Size(327, 500);

this.fileListBox.TabIndex = 5;

this.fileListBox.SelectedValueChanged += new System.EventHandler(this.fileListBox\_SelectedValueChanged);

//

// panel1

//

this.panel1.Anchor = ((System.Windows.Forms.AnchorStyles) (((System.Windows.Forms.AnchorStyles.Bottom | System.Windows.Forms.AnchorStyles.Left) | System.Windows.Forms.AnchorStyles.Right)));

this.panel1.Controls.Add(this.panel3);

this.panel1.Controls.Add(this.panel2);

this.panel1.Controls.Add(this.path\_panel);

this.panel1.Location = new System.Drawing.Point(0, 580);

this.panel1.Margin = new System.Windows.Forms.Padding(4);

this.panel1.Name = "panel1";

this.panel1.Size = new System.Drawing.Size(1069, 46);

this.panel1.TabIndex = 2;

//

// panel3

//

this.panel3.Anchor = ((System.Windows.Forms.AnchorStyles) (((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) | System.Windows.Forms.AnchorStyles.Right)));

this.panel3.AutoScroll = true;

this.panel3.Controls.Add(this.time\_label);

this.panel3.Location = new System.Drawing.Point(803, 0);

this.panel3.Margin = new System.Windows.Forms.Padding(4);

this.panel3.Name = "panel3";

this.panel3.Size = new System.Drawing.Size(263, 46);

this.panel3.TabIndex = 2;

//

// time\_label

//

this.time\_label.Anchor = ((System.Windows.Forms.AnchorStyles) (((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) | System.Windows.Forms.AnchorStyles.Right)));

this.time\_label.AutoEllipsis = true;

this.time\_label.Location = new System.Drawing.Point(75, 0);

this.time\_label.Margin = new System.Windows.Forms.Padding(13, 0, 7, 0);

this.time\_label.Name = "time\_label";

this.time\_label.Size = new System.Drawing.Size(176, 46);

this.time\_label.TabIndex = 0;

this.time\_label.Text = "Время:";

this.time\_label.TextAlign = System.Drawing.ContentAlignment.MiddleLeft;

//

// panel2

//

this.panel2.Anchor = ((System.Windows.Forms.AnchorStyles) (((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) | System.Windows.Forms.AnchorStyles.Right)));

this.panel2.AutoScroll = true;

this.panel2.Controls.Add(this.file\_label);

this.panel2.Location = new System.Drawing.Point(460, 0);

this.panel2.Margin = new System.Windows.Forms.Padding(4);

this.panel2.Name = "panel2";

this.panel2.Size = new System.Drawing.Size(263, 46);

this.panel2.TabIndex = 1;

//

// file\_label

//

this.file\_label.AutoEllipsis = true;

this.file\_label.Dock = System.Windows.Forms.DockStyle.Fill;

this.file\_label.Location = new System.Drawing.Point(0, 0);

this.file\_label.Margin = new System.Windows.Forms.Padding(13, 0, 7, 0);

this.file\_label.Name = "file\_label";

this.file\_label.Size = new System.Drawing.Size(263, 46);

this.file\_label.TabIndex = 0;

this.file\_label.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;

//

// path\_panel

//

this.path\_panel.Anchor = ((System.Windows.Forms.AnchorStyles) ((((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) | System.Windows.Forms.AnchorStyles.Left) | System.Windows.Forms.AnchorStyles.Right)));

this.path\_panel.AutoScroll = true;

this.path\_panel.Controls.Add(this.path\_label);

this.path\_panel.Location = new System.Drawing.Point(0, 0);

this.path\_panel.Margin = new System.Windows.Forms.Padding(4);

this.path\_panel.Name = "path\_panel";

this.path\_panel.Size = new System.Drawing.Size(424, 46);

this.path\_panel.TabIndex = 0;

//

// path\_label

//

this.path\_label.AutoEllipsis = true;

this.path\_label.Dock = System.Windows.Forms.DockStyle.Fill;

this.path\_label.Location = new System.Drawing.Point(0, 0);

this.path\_label.Margin = new System.Windows.Forms.Padding(13, 0, 7, 0);

this.path\_label.Name = "path\_label";

this.path\_label.Size = new System.Drawing.Size(424, 46);

this.path\_label.TabIndex = 0;

this.path\_label.Text = "Путь";

this.path\_label.TextAlign = System.Drawing.ContentAlignment.MiddleLeft;

//

// timer

//

this.timer.Enabled = true;

this.timer.Interval = 1000;

this.timer.Tick += new System.EventHandler(this.timer\_Tick);

//

// FormMain

//

this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 16F);

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

this.BackColor = System.Drawing.Color.AntiqueWhite;

this.ClientSize = new System.Drawing.Size(1067, 623);

this.Controls.Add(this.panel1);

this.Controls.Add(this.panel\_main);

this.Controls.Add(this.panel\_top);

this.Location = new System.Drawing.Point(15, 15);

this.Margin = new System.Windows.Forms.Padding(4);

this.MinimumSize = new System.Drawing.Size(1082, 661);

this.Name = "FormMain";

this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;

this.Text = "Лабораторная работа #4";

this.WindowState = System.Windows.Forms.FormWindowState.Maximized;

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

this.panel\_top.ResumeLayout(false);

this.panel\_top.PerformLayout();

this.panel\_main.ResumeLayout(false);

this.splitContainer1.Panel1.ResumeLayout(false);

this.splitContainer1.Panel2.ResumeLayout(false);

((System.ComponentModel.ISupportInitialize) (this.splitContainer1)).EndInit();

this.splitContainer1.ResumeLayout(false);

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

this.panel1.ResumeLayout(false);

this.panel3.ResumeLayout(false);

this.panel2.ResumeLayout(false);

this.path\_panel.ResumeLayout(false);

this.ResumeLayout(false);

}

private System.Windows.Forms.CheckBox checkBox1;

private Microsoft.VisualBasic.Compatibility.VB6.DirListBox dirListBox;

private Microsoft.VisualBasic.Compatibility.VB6.DriveListBox driveListBox;

private System.Windows.Forms.Label file\_label;

private Microsoft.VisualBasic.Compatibility.VB6.FileListBox fileListBox;

private System.Windows.Forms.Label label1;

private System.Windows.Forms.Label label2;

private System.Windows.Forms.Panel panel\_main;

private System.Windows.Forms.Panel panel\_top;

private System.Windows.Forms.Panel panel1;

private System.Windows.Forms.Panel panel2;

private System.Windows.Forms.Panel panel3;

private System.Windows.Forms.Label path\_label;

private System.Windows.Forms.Panel path\_panel;

private System.Windows.Forms.PictureBox pictureBox;

private System.Windows.Forms.SplitContainer splitContainer1;

private System.Windows.Forms.Label time\_label;

private System.Windows.Forms.Timer timer;

private System.Windows.Forms.ComboBox type\_comboBox;

#endregion

}

}