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«Саратовский государственный технический университет имени Гагарина Ю. А.»

Кафедра
«Прикладные информационные технологии»

ОТЧЕТ
по лабораторной работе №1

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```csharp
using System;
using System.Windows.Forms;

namespace Lab_1
{
    static class Program
    {
        /// <summary>
        /// Главная точка входа для приложения.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new StudentEntryForm());
        }
    }
}
```

```csharp
using System;
using System.Windows.Forms;

namespace Lab_1
{
    public class StudentEntryForm : Form
    {
        private System.Windows.Forms.Button saveButton;
        private System.Windows.Forms.Button button2;
        private System.Windows.Forms.Button ExitButton;
        private System.Windows.Forms.Label label1;
        private System.Windows.Forms.Label label2;
        private System.Windows.Forms.Label label3;
        private System.Windows.Forms.Label label4;
        private System.Windows.Forms.Label label5;
        private System.Windows.Forms.TextBox textBox1;
        private System.Windows.Forms.TextBox textBox2;
        private System.Windows.Forms.TextBox textBox3;
        private System.Windows.Forms.ListBox listBox1;
        private System.Windows.Forms.CheckedListBox checkedListBox1;
        private System.Windows.Forms.Label Title;
        private System.ComponentModel.IContainer components = null;

        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
                components.Dispose();

            base.Dispose(disposing);
        }

        private void InitializeComponent()
        {
            this.saveButton = new System.Windows.Forms.Button();
            this.button2 = new System.Windows.Forms.Button();
            this.ExitButton = new System.Windows.Forms.Button();
            this.label1 = new System.Windows.Forms.Label();
            this.label2 = new System.Windows.Forms.Label();
            this.label3 = new System.Windows.Forms.Label();
            this.label4 = new System.Windows.Forms.Label();
            this.label5 = new System.Windows.Forms.Label();
            this.textBox1 = new System.Windows.Forms.TextBox();
            this.textBox2 = new System.Windows.Forms.TextBox();
            this.textBox3 = new System.Windows.Forms.TextBox();
            this.listBox1 = new System.Windows.Forms.ListBox();
            this.checkedListBox1 = new System.Windows.Forms.CheckedListBox();
            this.Title = new System.Windows.Forms.Label();
            this.SuspendLayout();
```

```
//
// saveButton
//
this.saveButton.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Pixel);
this.saveButton.Location = new System.Drawing.Point(50, 380);
this.saveButton.Name = "saveButton";
this.saveButton.Size = new System.Drawing.Size(100, 30);
this.saveButton.TabIndex = 0;
this.saveButton.Text = "Save";
this.saveButton.UseVisualStyleBackColor = true;
this.saveButton.Click += new System.EventHandler(this.SaveButton_Click);
//
// button2
//
this.button2.Location = new System.Drawing.Point(182, 380);
this.button2.Name = "button2";
this.button2.Size = new System.Drawing.Size(100, 30);
this.button2.TabIndex = 1;
this.button2.Text = "Reset";
this.button2.UseVisualStyleBackColor = true;
this.button2.Click += new System.EventHandler(this.Button2_Click);
//
// ExitButton
//
this.ExitButton.Location = new System.Drawing.Point(319, 380);
this.ExitButton.Name = "ExitButton";
this.ExitButton.Size = new System.Drawing.Size(100, 30);
this.ExitButton.TabIndex = 2;
this.ExitButton.Text = "Exit";
this.ExitButton.UseVisualStyleBackColor = true;
this.ExitButton.Click += new System.EventHandler(this.ExitButton_Click);
//
// label1
//
this.label1.AutoSize = true;
this.label1.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);
this.label1.Location = new System.Drawing.Point(54, 94);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(81, 29);
this.label1.TabIndex = 3;
this.label1.Text = "Name";
this.label1.Click += new System.EventHandler(this.Label1_Click);
//
// label2
//
this.label2.AutoSize = true;
this.label2.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);
```

```
this.label2.Location = new System.Drawing.Point(54, 152);
this.label2.Name = "label2";
this.label2.Size = new System.Drawing.Size(106, 29);
this.label2.TabIndex = 4;
this.label2.Text = "Address";
this.label2.Click += new System.EventHandler(this.Label2_Click);
//
// label3
//
this.label3.AutoSize = true;
this.label3.Font = new System.Drawing.Font("Microsoft Sans Serif", 13F);
this.label3.Location = new System.Drawing.Point(54, 210);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(159, 26);
this.label3.TabIndex = 5;
this.label3.Text = "Phone Number";
//
// label4
//
this.label4.AutoSize = true;
this.label4.Font = new System.Drawing.Font("Microsoft Sans Serif", 13F);
this.label4.Location = new System.Drawing.Point(54, 264);
this.label4.Name = "label4";
this.label4.Size = new System.Drawing.Size(148, 26);
this.label4.TabIndex = 6;
this.label4.Text = "Degree Opted";
//
// label5
//
this.label5.AutoSize = true;
this.label5.Font = new System.Drawing.Font("Microsoft Sans Serif", 13F);
this.label5.Location = new System.Drawing.Point(54, 322);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(142, 26);
this.label5.TabIndex = 7;
this.label5.Text = "Majors Opted";
this.label5.Click += new System.EventHandler(this.Label5_Click);
//
// textBox1
//
this.textBox1.Location = new System.Drawing.Point(230, 210);
this.textBox1.Name = "textBox1";
this.textBox1.Size = new System.Drawing.Size(158, 22);
this.textBox1.TabIndex = 8;
//
// textBox2
//
this.textBox2.Location = new System.Drawing.Point(230, 160);
```

```csharp
            this.textBox2.Name = "textBox2";
            this.textBox2.Size = new System.Drawing.Size(158, 22);
            this.textBox2.TabIndex = 9;
            //
            // textBox3
            //
            this.textBox3.Location = new System.Drawing.Point(230, 101);
            this.textBox3.Name = "textBox3";
            this.textBox3.Size = new System.Drawing.Size(158, 22);
            this.textBox3.TabIndex = 10;
            this.textBox3.TextChanged += new System.EventHandler(this.TextBox3_TextChanged);
            //
            // listBox1
            //
            this.listBox1.FormattingEnabled = true;
            this.listBox1.ItemHeight = 16;
            this.listBox1.Items.AddRange(new object[] {
                        "BE",
                        "MS",
                        "BTech",
                        "MTech",
                        "BSc",
                        "MSc",
                        "BA ",
                        "MA",
                        "Bcom",
                        "Mcom",
                        "BCA",
                        "MCA"});
            this.listBox1.Location = new System.Drawing.Point(230, 264);
            this.listBox1.Name = "listBox1";
            this.listBox1.Size = new System.Drawing.Size(158, 36);
            this.listBox1.TabIndex = 11;
            this.listBox1.SelectedIndexChanged += new
System.EventHandler(this.ListBox1_SelectedIndexChanged);
            //
            // checkedListBox1
            //
            this.checkedListBox1.FormattingEnabled = true;
            this.checkedListBox1.Items.AddRange(new object[] {
                        "Mathematics ",
                        "Physics",
                        "Chemistry",
                        "Biology",
                        "Accounts"});
            this.checkedListBox1.Location = new System.Drawing.Point(230, 322);
            this.checkedListBox1.Name = "checkedListBox1";
            this.checkedListBox1.Size = new System.Drawing.Size(158, 38);
```

```
            this.checkedListBox1.TabIndex = 12;
            //
            // Title
            //
            this.Title.AutoSize = true;
            this.Title.Font = new System.Drawing.Font("Microsoft Sans Serif", 20F);
            this.Title.Location = new System.Drawing.Point(82, 28);
            this.Title.Name = "Title";
            this.Title.Size = new System.Drawing.Size(310, 39);
            this.Title.TabIndex = 13;
            this.Title.Text = "Student Enrty Form";
            //
            // Form1
            //
            this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 16F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
            this.ClientSize = new System.Drawing.Size(484, 434);
            this.Controls.Add(this.Title);
            this.Controls.Add(this.checkedListBox1);
            this.Controls.Add(this.listBox1);
            this.Controls.Add(this.textBox3);
            this.Controls.Add(this.textBox2);
            this.Controls.Add(this.textBox1);
            this.Controls.Add(this.label5);
            this.Controls.Add(this.label4);
            this.Controls.Add(this.label3);
            this.Controls.Add(this.label2);
            this.Controls.Add(this.label1);
            this.Controls.Add(this.ExitButton);
            this.Controls.Add(this.button2);
            this.Controls.Add(this.saveButton);
            this.Name = "Form1";
            this.Text = "Form1";
            this.Load += new System.EventHandler(this.Form1_Load);
            this.ResumeLayout(false);
            this.PerformLayout();
        }

        public StudentEntryForm()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {

        }
```

```csharp
private void Label1_Click(object sender, EventArgs e)
{

}

private void TextBox3_TextChanged(object sender, EventArgs e)
{

}

private void Label2_Click(object sender, EventArgs e)
{

}

private void Label5_Click(object sender, EventArgs e)
{

}

private void ExitButton_Click(object sender, EventArgs e)
{
        Application.Exit();
}

private void ListBox1_SelectedIndexChanged(object sender, EventArgs e)
{
        if (listBox1.SelectedIndex >= 0 && listBox1.SelectedIndex < 4)
        {
                checkedListBox1.Items.Clear();
                checkedListBox1.Items.AddRange(new String[] {
                                "Computer Science",
                                "Mechanical",
                                "Electrical",
                                "Electrical and Electronics",
                                "Electronics and Communication",
                                "Civil"
                                });
        }

        if (listBox1.SelectedIndex >= 0)
        {
                listBox1.Visible = false;
                label4.Text = "Degree opted: " + listBox1.Text;
        }

}
```

```csharp
        private void SaveButton_Click(object sender, EventArgs e)
        {
                String result = "Name: " + textBox3.Text + "\n";

                result += "Address: " + textBox2.Text + "\n";
                result += "Phone number: " + textBox1.Text + "\n";
                result += "Degree opted: " + listBox1.Text + "\n";
                result += "Majors Opted: ";

                foreach (var item in checkedListBox1.CheckedItems)
                        result += item.ToString() + ", ";

                result = result.Substring(0, result.Length - 1) + ".";

                MessageBox.Show(result);
        }

        private void Button2_Click(object sender, EventArgs e)
        {
                textBox1.Clear();
                textBox2.Clear();
                textBox3.Clear();

                label4.Text = "Degree Opted";

                listBox1.ClearSelected();
                listBox1.Visible = true;

                checkedListBox1.Items.Clear();
                this.checkedListBox1.Items.AddRange(new object[] {
                        "Mathematics ",
                        "Physics",
                        "Chemistry",
                        "Biology",
                        "Accounts"
                        });
        }
    }
}
```
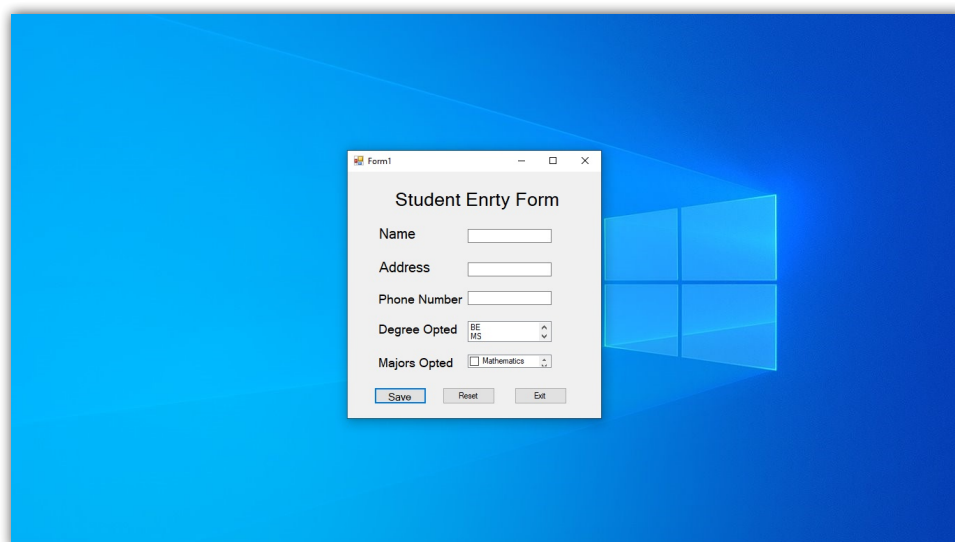
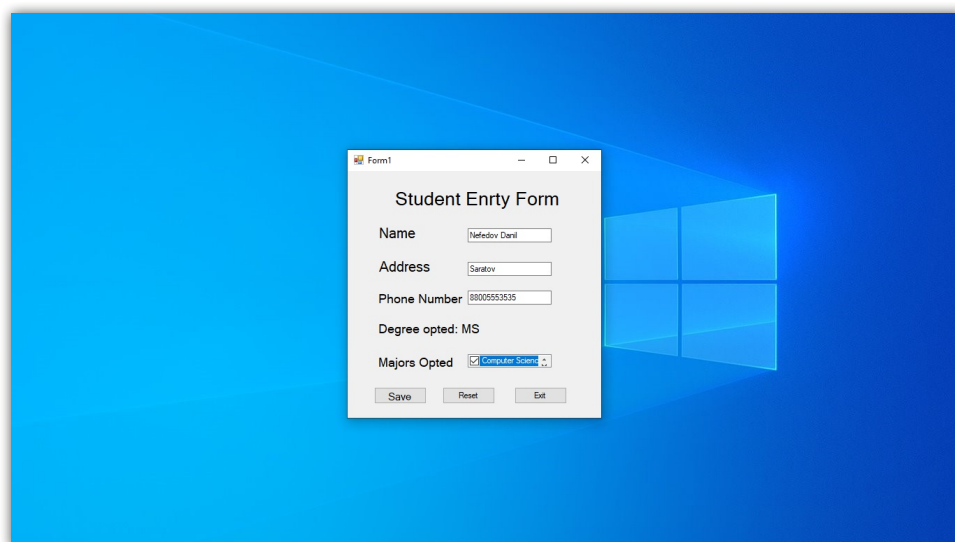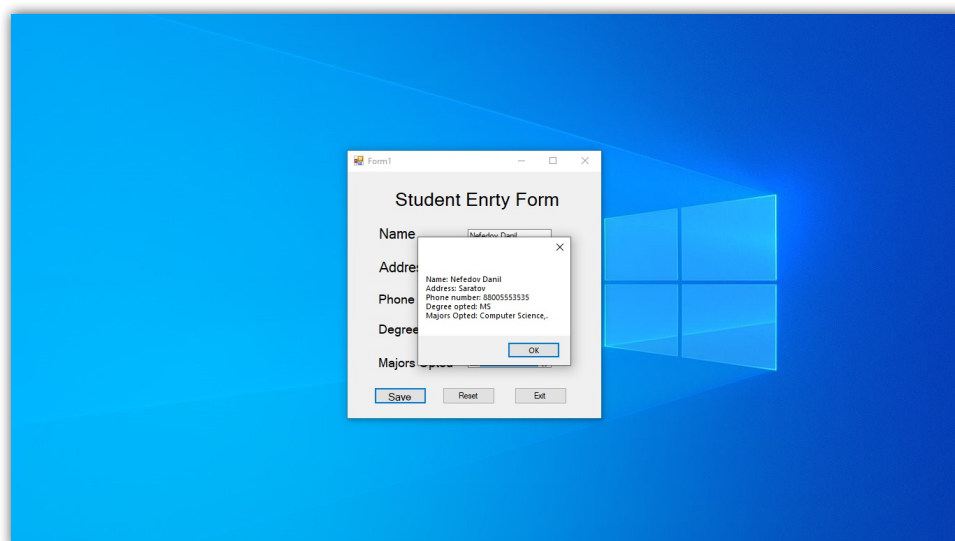Рис. 1. Главное окно программы сразу после запуска.

Рис. 2. Главное окно программы с заполненными формами.

Рис. 3. Сохраненные записи форм.