

Федеральное государственное бюджетное образовательное учреждение высшего образования
«Саратовский государственный технический университет имени Гагарина Ю. А.»

Кафедра
«Прикладные информационные технологии»

ОТЧЕТ
по лабораторной работе №1

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```
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());
        }
    }
}
```

```
using System;
using System.Windows.Forms;
using System.ComponentModel;

namespace Lab_1
{
    public class StudentEntryForm : Form
    {
        private Button saveButton;
        private Button resetButton;
        private Button exitButton;
        private Label titleLabel;
        private Label nameLabel;
        private Label addressLabel;
        private Label phoneNumberLabel;
        private Label degreeOptedLabel;
        private Label majorsOptedLabel;
        private TextBox phoneNumberTextBox;
        private TextBox addressTextBox;
        private TextBox nameTextBox;
        private ListBox degreeOptedListBox;
        private CheckedListBox checkedDegreeOptedListBox;
        private IContainer components = null;

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

            base.Dispose(disposing);
        }

        private void InitializeComponent()
        {
            this.saveButton = new Button();
            this.resetButton = new Button();
            this.exitButton = new Button();
            this.nameLabel = new Label();
            this.addressLabel = new Label();
            this.phoneNumberLabel = new Label();
            this.degreeOptedLabel = new Label();
            this.majorsOptedLabel = new Label();
            this.phoneNumberTextBox = new TextBox();
            this.addressTextBox = new TextBox();
            this.nameTextBox = new TextBox();
            this.degreeOptedListBox = new ListBox();
            this.checkedDegreeOptedListBox = new CheckedListBox();
            this.titleLabel = new Label();
        }
    }
}
```

```
this.SuspendLayout();
//
// saveButton
//
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);
//
// resetButton
//
this.resetButton.Location = new System.Drawing.Point(182, 380);
this.resetButton.Name = "resetButton";
this.resetButton.Size = new System.Drawing.Size(100, 30);
this.resetButton.TabIndex = 1;
this.resetButton.Text = "Reset";
this.resetButton.UseVisualStyleBackColor = true;
this.resetButton.Click += new System.EventHandler(this.ResetButton_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);
//
// nameLabel
//
this.nameLabel.AutoSize = true;
this.nameLabel.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);
this.nameLabel.Location = new System.Drawing.Point(54, 94);
this.nameLabel.Name = "nameLabel";
this.nameLabel.Size = new System.Drawing.Size(81, 29);
this.nameLabel.TabIndex = 3;
this.nameLabel.Text = "Name";
//
// addressLabel
//
this.addressLabel.AutoSize = true;
this.addressLabel.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);
this.addressLabel.Location = new System.Drawing.Point(54, 152);
this.addressLabel.Name = "addressLabel";
```

```
        this.addressLabel.Size = new System.Drawing.Size(106, 29);
        this.addressLabel.TabIndex = 4;
        this.addressLabel.Text = "Address";
        //
        // phoneNumberLabel
        //
        this.phoneNumberLabel.AutoSize = true;
        this.phoneNumberLabel.Font = new System.Drawing.Font("Microsoft Sans Serif",
13F);

        this.phoneNumberLabel.Location = new System.Drawing.Point(54, 210);
        this.phoneNumberLabel.Name = "phoneNumberLabel";
        this.phoneNumberLabel.Size = new System.Drawing.Size(159, 26);
        this.phoneNumberLabel.TabIndex = 5;
        this.phoneNumberLabel.Text = "Phone Number";
        //
        // degreeOptedLabel
        //
        this.degreeOptedLabel.AutoSize = true;
        this.degreeOptedLabel.Font = new System.Drawing.Font("Microsoft Sans Serif",
13F);

        this.degreeOptedLabel.Location = new System.Drawing.Point(54, 264);
        this.degreeOptedLabel.Name = "degreeOptedLabel";
        this.degreeOptedLabel.Size = new System.Drawing.Size(148, 26);
        this.degreeOptedLabel.TabIndex = 6;
        this.degreeOptedLabel.Text = "Degree Opted";
        //
        // majorsOptedLabel
        //
        this.majorsOptedLabel.AutoSize = true;
        this.majorsOptedLabel.Font = new System.Drawing.Font("Microsoft Sans Serif",
13F);

        this.majorsOptedLabel.Location = new System.Drawing.Point(54, 322);
        this.majorsOptedLabel.Name = "majorsOptedLabel";
        this.majorsOptedLabel.Size = new System.Drawing.Size(142, 26);
        this.majorsOptedLabel.TabIndex = 7;
        this.majorsOptedLabel.Text = "Majors Opted";
        //
        // phoneNumberTextBox
        //
        this.phoneNumberTextBox.Location = new System.Drawing.Point(230, 210);
        this.phoneNumberTextBox.Name = "phoneNumberTextBox";
        this.phoneNumberTextBox.Size = new System.Drawing.Size(158, 22);
        this.phoneNumberTextBox.TabIndex = 8;
        //
        // addressTextBox
        //
        this.addressTextBox.Location = new System.Drawing.Point(230, 160);
        this.addressTextBox.Name = "addressTextBox";
```

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        this.addressTextBox.Size = new System.Drawing.Size(158, 22);
        this.addressTextBox.TabIndex = 9;
        //
        // nameTextBox
        //
        this.nameTextBox.Location = new System.Drawing.Point(230, 101);
        this.nameTextBox.Name = "nameTextBox";
        this.nameTextBox.Size = new System.Drawing.Size(158, 22);
        this.nameTextBox.TabIndex = 10;
        //
        // degreeOptedListBox
        //
        this.degreeOptedListBox.FormattingEnabled = true;
        this.degreeOptedListBox.ItemHeight = 16;
        this.degreeOptedListBox.Items.AddRange(new object[] {
            "BE",
            "MS",
            "BTech",
            "MTech",
            "BSc",
            "MSc",
            "BA ",
            "MA",
            "Bcom",
            "Mcom",
            "BCA",
            "MCA"
        });
        this.degreeOptedListBox.Location = new System.Drawing.Point(230, 264);
        this.degreeOptedListBox.Name = "degreeOptedListBox";
        this.degreeOptedListBox.Size = new System.Drawing.Size(158, 36);
        this.degreeOptedListBox.TabIndex = 11;
        this.degreeOptedListBox.SelectedIndexChanged += new
System.EventHandler(this.DegreeOptedListBox_SelectedIndexChanged);
        //
        // checkedDegreeOptedListBox
        //
        this.checkedDegreeOptedListBox.FormattingEnabled = true;
        this.checkedDegreeOptedListBox.Items.AddRange(new object[] {
            "Mathematics ",
            "Physics",
            "Chemistry",
            "Biology",
            "Accounts"});
        this.checkedDegreeOptedListBox.Location = new System.Drawing.Point(230, 322);
        this.checkedDegreeOptedListBox.Name = "checkedDegreeOptedListBox";
        this.checkedDegreeOptedListBox.Size = new System.Drawing.Size(158, 38);
        this.checkedDegreeOptedListBox.TabIndex = 12;

```

```
//
// titleLabel
//
this.titleLabel.AutoSize = true;
this.titleLabel.Font = new System.Drawing.Font("Microsoft Sans Serif", 20F);
this.titleLabel.Location = new System.Drawing.Point(82, 28);
this.titleLabel.Name = "titleLabel";
this.titleLabel.Size = new System.Drawing.Size(310, 39);
this.titleLabel.TabIndex = 13;
this.titleLabel.Text = "Student Enrty Form";
//
// Form1
//
this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 16F);
this.AutoScaleMode = AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(484, 434);
this.Controls.Add(this.titleLabel);
this.Controls.Add(this.checkedDegreeOptedListBox);
this.Controls.Add(this.degreeOptedListBox);
this.Controls.Add(this.nameTextBox);
this.Controls.Add(this.addressTextBox);
this.Controls.Add(this.phoneNumberTextBox);
this.Controls.Add(this.majorsOptedLabel);
this.Controls.Add(this.degreeOptedLabel);
this.Controls.Add(this.phoneNumberLabel);
this.Controls.Add(this.addressLabel);
this.Controls.Add(this.nameLabel);
this.Controls.Add(this.exitButton);
this.Controls.Add(this.resetButton);
this.Controls.Add(this.saveButton);
this.Name = "StudentEntryForm";
this.Text = "StudentEntryForm";
this.ResumeLayout(false);
this.PerformLayout();
}

public StudentEntryForm()
{
    InitializeComponent();
}

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

private void DegreeOptedListBox_SelectedIndexChanged(object sender, EventArgs e)
{

```

```
4) if (degreeOptedListBox.SelectedIndex >= 0 && degreeOptedListBox.SelectedIndex <

{
    checkedDegreeOptedListBox.Items.Clear();
    checkedDegreeOptedListBox.Items.AddRange(new String[] {
        "Computer Science",
        "Mechanical",
        "Electrical",
        "Electrical and Electronics",
        "Electronics and Communication",
        "Civil"
    });
}

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

}

private void SaveButton_Click(object sender, EventArgs e)
{
    string result;

    result = "Name: " + nameTextBox.Text;
    result += "\nAddress: " + addressTextBox.Text;
    result += "\nPhone number: " + phoneNumberTextBox.Text;
    result += "\nDegree opted: " + degreeOptedListBox.Text;
    result += "\nMajors Opted: ";

    foreach (var i in checkedDegreeOptedListBox.CheckedItems)
        result += i.ToString() + ", ";

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

    MessageBox.Show(result);
}

private void ResetButton_Click(object sender, EventArgs e)
{
    phoneNumberTextBox.Clear();
    addressTextBox.Clear();
    nameTextBox.Clear();

    degreeOptedLabel.Text = "Degree Opted";
}
```



```
degreeOptedListBox.ClearSelected();
degreeOptedListBox.Visible = true;

checkedDegreeOptedListBox.Items.Clear();
this.checkedDegreeOptedListBox.Items.AddRange(new object[] {
    "Mathematics ",
    "Physics",
    "Chemistry",
    "Biology",
    "Accounts"
});
}
}
}
```

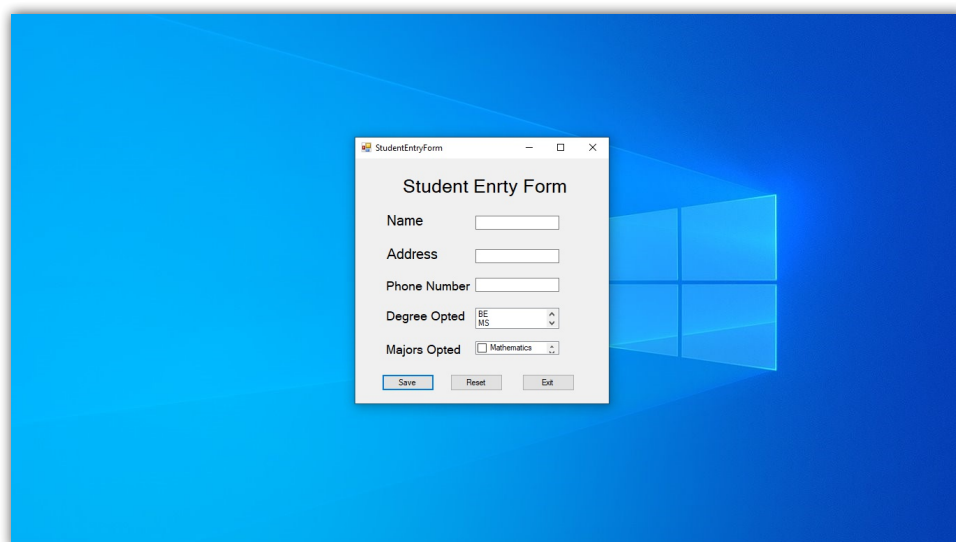


Рис. 1. Главное окно программы сразу после запуска.

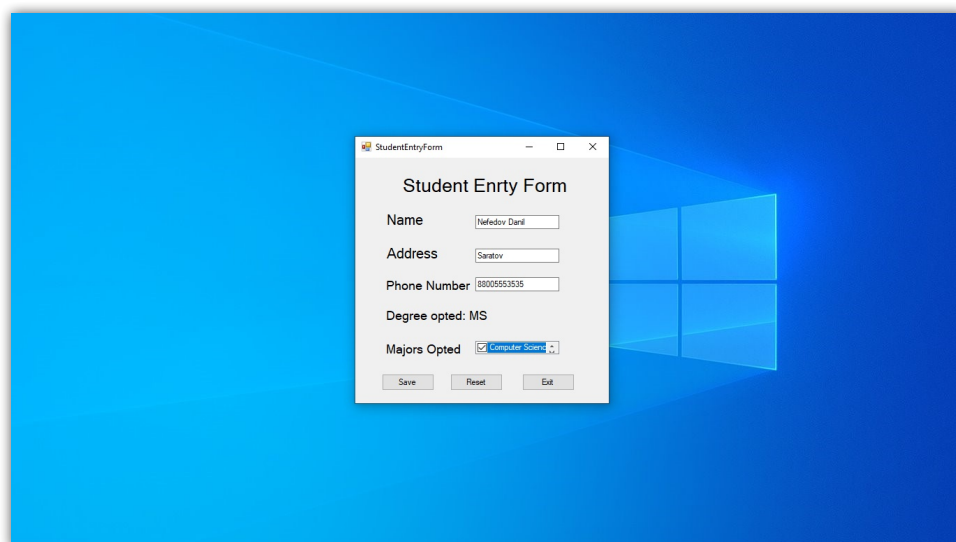


Рис. 2. Главное окно программы с заполненными текстовыми полями.

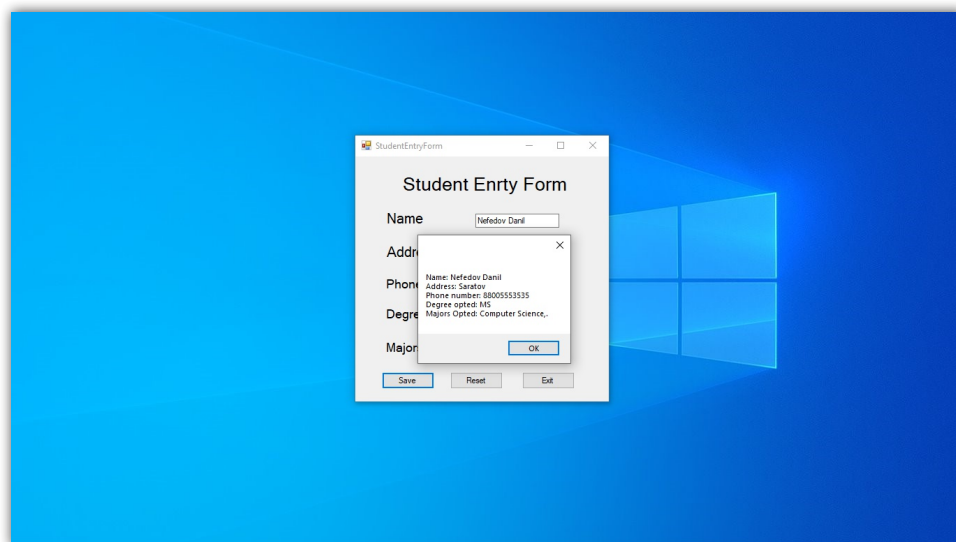


Рис. 3. Сохраненные записи форм.