```
Горяева Татьяна
```

Демо 1 и 2 практика

public SqlConnection getConnection()

return sqlConnection;

```
Form1.cs конструктор – ничего не делаем
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 DataBase
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
    private void Form1_Load(object sender, EventArgs e)
Database.cs
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace DataBase
  public class Database
    SqlConnection sqlConnection = new SqlConnection(@ "Data Source = DARK\MSSQLSERVER01;Database =
demo2;Integrated Security = true");
    public void openConnection()
       if (sqlConnection.State == System.Data.ConnectionState.Closed) { sqlConnection.Open(); }
    public void closeConnection()
       if (sqlConnection.State == System.Data.ConnectionState.Open) { sqlConnection.Close(); }
```

Создается таблица "Register" с полями: ID, логин, пароль. Вставляются данные в таблицу с помощью запроса INSERT.

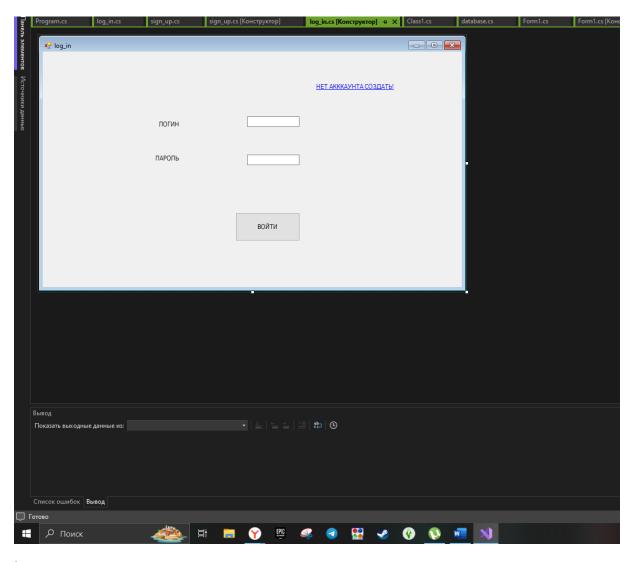
```
CREATE table register(
id_user int identity(1,1) not null,
login_user varchar (50) not null,
passwond_user varchar(58) not null
);
insert into register (login_user, passwond_user) values ('student', '123')

Results Messages

id_user login_user passwond_user

1 1 student 123
```

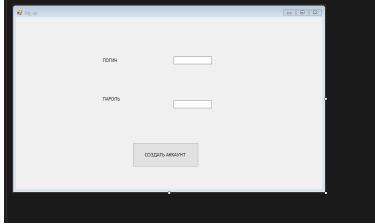
log_in.cs конструктор Создается форма с элементами управления: картинки, лейблы, текст-боксы, кнопка.



log_in.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace DataBase
  public partial class log_in : Form
    Database database = new Database();
    public log_in()
       InitializeComponent();
    private void log_in_Load(object sender, EventArgs e)
       textBox2.PasswordChar = '*';
       textBox1.MaxLength = 50;
       textBox2.MaxLength = 50;
```

```
private void button2_Click(object sender, EventArgs e)
       var loginUser = textBox1.Text;
       var passUser = textBox2.Text;
       SqlDataAdapter adapter = new SqlDataAdapter();
       DataTable table = new DataTable();
      string querystring = $"select id_user, login_user, passwond_user from register where login_user = '{loginUser}'
and passwond_user = '{passUser}'";
       SqlCommand command = new SqlCommand(querystring, database.getConnection());
       adapter.SelectCommand = command;
       adapter.Fill(table);
      if (table.Rows.Count == 1)
         MessageBox.Show("Вы успешно вошли!", "Успешно!", MessageBoxButtons.OK,
MessageBoxIcon.Information);
         Form1 frm1 = new Form1();
         this.Hide();
         frm1.ShowDialog();
         this.Show();
       else
         MessageBox.Show("Такого аккаунта не существует!", "Аккаунта не существует!!",
MessageBoxButtons.OK, MessageBoxIcon.Warning);
    private void linkLabel1 LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)
       sing_up frm_sign = new sing_up();
       frm_sign.Show();
       this.Hide();
Log_in.Designer
this.button2.Click += new System.EventHandler(this.button2_Click);
 this.linkLabel1.LinkClicked += new LinkLabelLinkClickedEventHandler(linkLabel1 LinkClicked);
sign_up конструктор
sign up.Designer
this.button.Click += new System.EventHandler(this.btnCreate_Click);
```



```
sign_up.cs
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace DataBase
  public partial class sing_up : Form
    Database database = new Database();
    public sing_up()
       InitializeComponent();
    private void sing_up_Load(object sender, EventArgs e)
     }
    private void button1_Click(object sender, EventArgs e)
       Database dataBase = new Database();
       var login = textBox_login2.Text;
       var password = textBox_password2.Text;
       string querysrting = $"insert into register (login_user, passwond_user) values('{login}','{password} ')";
       SqlCommand command = new SqlCommand(querysrting, dataBase.getConnection());
       dataBase.openConnection();
       if (command.ExecuteNonQuery() == 1)
         MessageBox.Show("Аккаунт успешно создан!", "Успех!");
         log_in frm_login = new log_in();
         this.Hide();
         frm_login.ShowDialog();
       }
```

```
else
         MessageBox.Show("Аккаунт не создан!");
       database.closeConnection();
  }
}
Program.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace DataBase
{
  internal static class Program
    /// <summary>
    /// Главная точка входа для приложения.
    /// </summary>
    [STAThread]
    static void Main()
       Application.EnableVisualStyles();
       Application.SetCompatibleTextRenderingDefault(false);
       Application.Run(new log_in());
  }
}
```

что получилось

