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Демо 1 и 2 практика

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

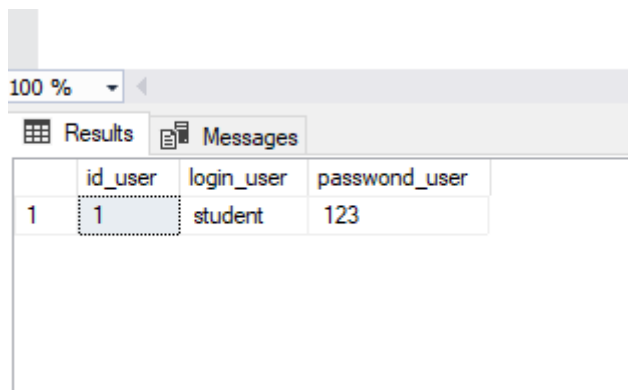
```
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

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(); }
        }
        public SqlConnection getConnection()
        {
            return sqlConnection;
        }
    }
}
```

```
}
```

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

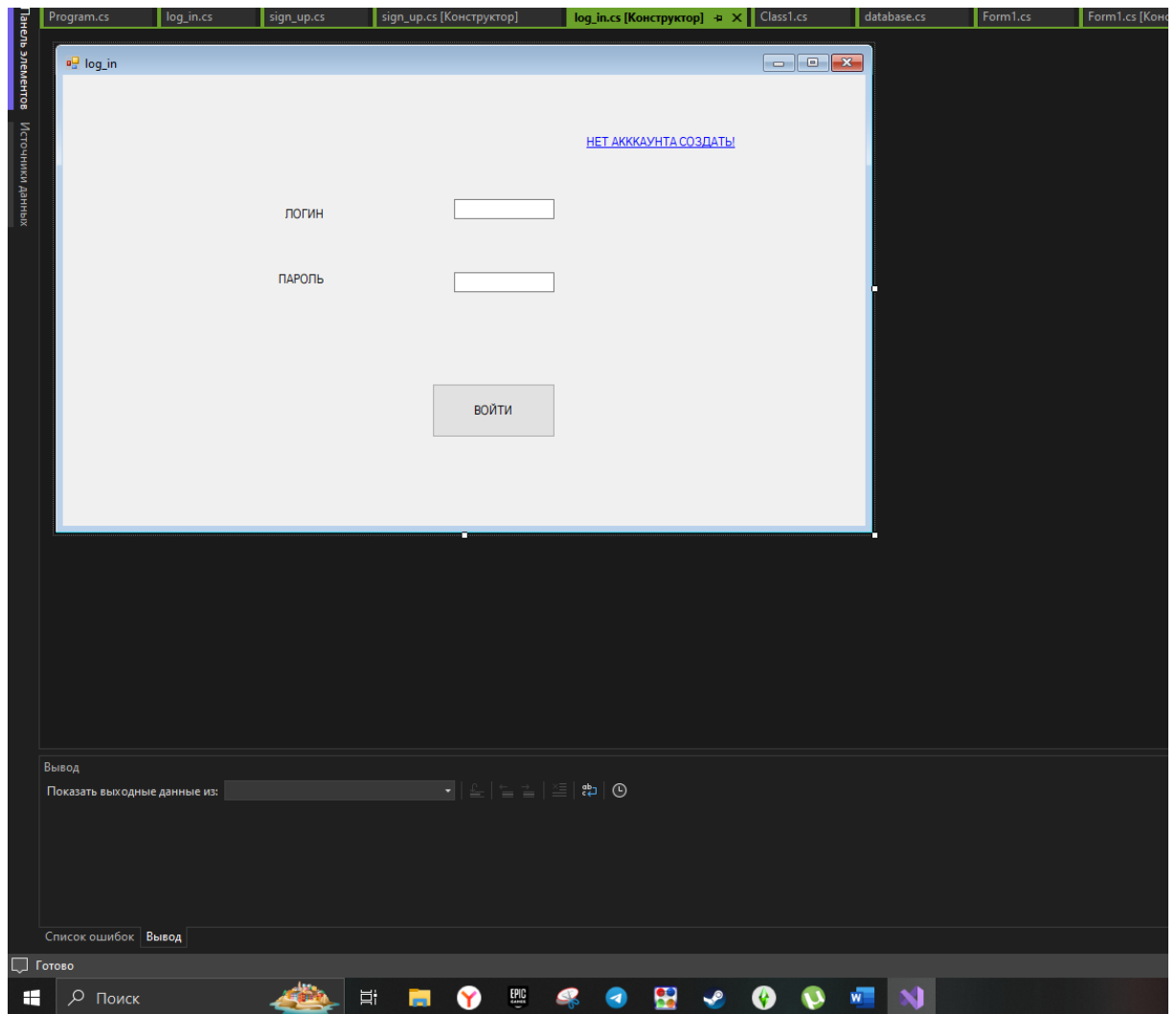
```
CREATE table register(  
    id_user int identity(1,1) not null,  
    login_user varchar (50) not null,  
    passwond_user varchar(58) not null  
);  
  
insert into register (login_user, passwond_user) values ('student', '123')
```



The screenshot shows a SQL query execution window with the 'Results' tab selected. It displays a single row of data from the 'register' table. The columns are 'id_user', 'login_user', and 'passwond_user'. The values in the row are 1, student, and 123 respectively.

	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

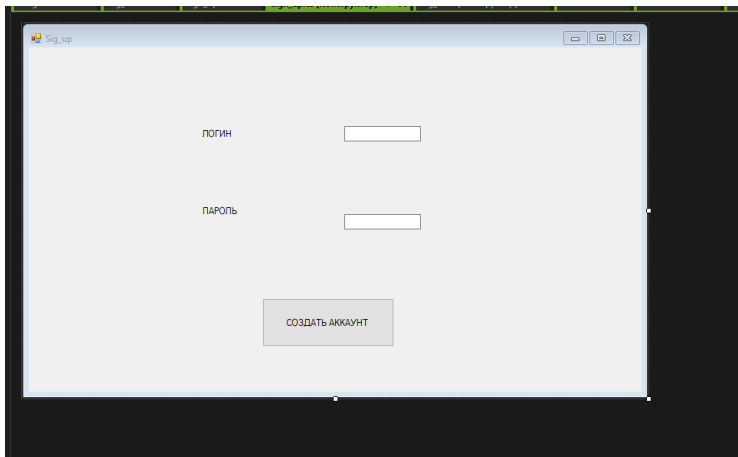
this.button2.Click += new System.EventHandler(this.button2_Click);

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

