Лабораторная работа №5

Тема: Настройка работы системы контроля версий (типов импортируемых файлов, путей, фильтров и др. параметров импорта в репозиторий).

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Цель: освоить методы конфигурирования системы контроля версий для определения типов импортируемых файлов, настройки путей и фильтров, а также параметров импорта, что обеспечивает правильную организацию и управление проектом.

Ход работы

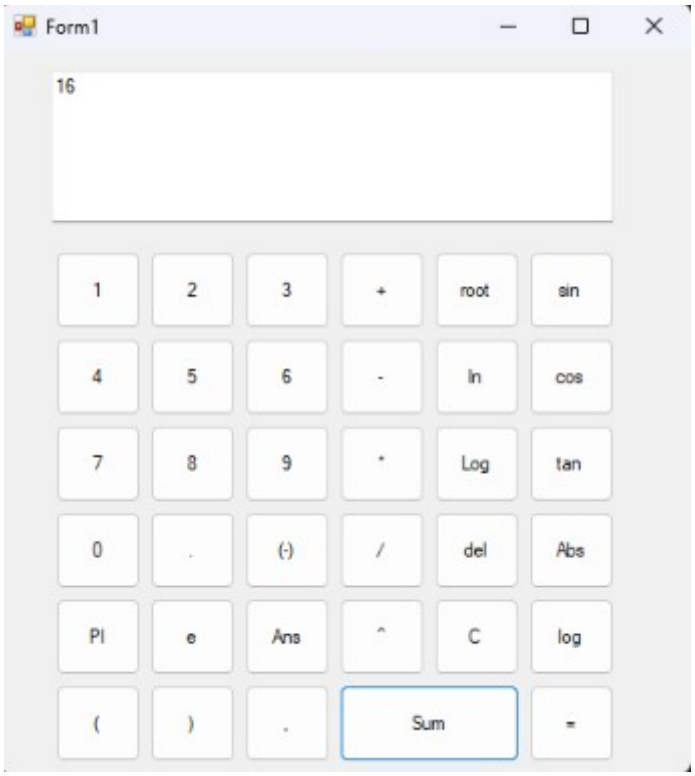

Рис. 1 – Скриншот работы приложения

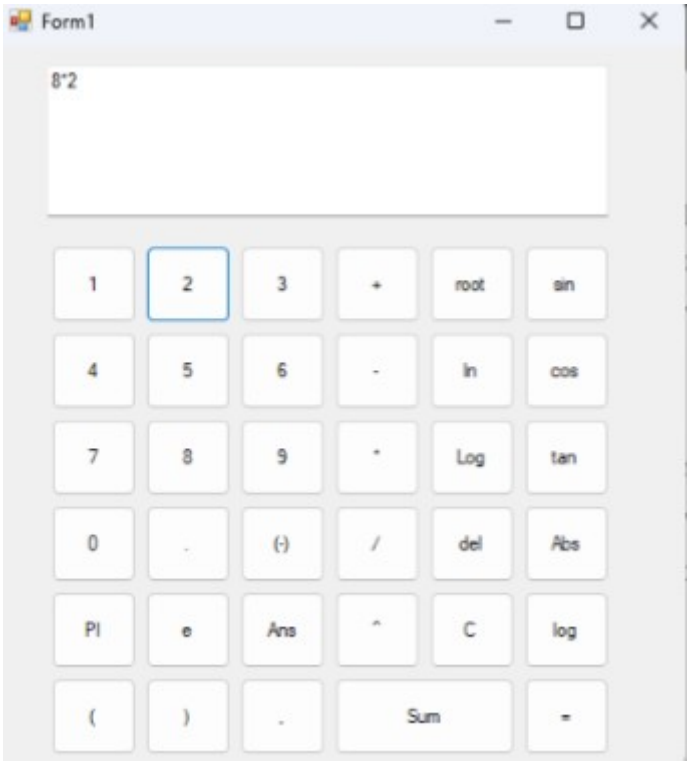

Рис. 1 – Скриншот работы приложения

Листинг кода:

```
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 ПР5
{
   public partial class Form1 : Form
   {
      private double memory = 0;
      public Form1()
      {
         InitializeComponent();
      }

      private void Number_Click(object sender, EventArgs e)
      {
```

```
    Button btn = (Button)sender;
    txtResult.Text += btn.Text;
}

private void btnPlus_Click(object sender, EventArgs e)
{
    txtResult.Text += "+";
}

private void btnMinus_Click(object sender, EventArgs e)
{
    txtResult.Text += "-";
}

private void btnUmnog_Click(object sender, EventArgs e)
{
    txtResult.Text += "*";
}

private void btnSlesh_Click(object sender, EventArgs e)
{
    txtResult.Text += "/";
}

private void btnToch_Click(object sender, EventArgs e)
{
    txtResult.Text += ".";
}

private void btnZap_Click(object sender, EventArgs e)
{
    txtResult.Text += ",";
}

private void btnCkob1_Click(object sender, EventArgs e)
{
    txtResult.Text += "(";
}

private void btnCkob2_Click(object sender, EventArgs e)
{
    txtResult.Text += ")";
}

private void btnCkobMinus_Click(object sender, EventArgs e)
```

```
        {
            txtResult.Text += "(-";
        }

        private void btnRoot_Click(object sender, EventArgs e)
        {
            try
            {
                double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
                double result = Math.Sqrt(current);
                txtResult.Text = result.ToString();
            }
            catch { txtResult.Text = "Error"; }
        }

        private void btnSin_Click(object sender, EventArgs e)
        {
            try
            {
                double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
                double result = Math.Sin(current * Math.PI / 180); // градусы в радианы
                txtResult.Text = result.ToString();
            }
            catch { txtResult.Text = "Error"; }
        }

        private void btnCos_Click(object sender, EventArgs e)
        {
            try
            {
                double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
                double result = Math.Cos(current * Math.PI / 180);
                txtResult.Text = result.ToString();
            }
            catch { txtResult.Text = "Error"; }
        }

        private void btnTan_Click(object sender, EventArgs e)
        {
            try
            {
```

```
            double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
            double result = Math.Tan(current * Math.PI / 180);
            txtResult.Text = result.ToString();
        }
        catch { txtResult.Text = "Error"; }
    }

    private void btnLog_Click(object sender, EventArgs e)
    {
        try
        {
            double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
            double result = Math.Log(current);
            txtResult.Text = result.ToString();
        }
        catch { txtResult.Text = "Error"; }
    }

    private void btnLogg_Click(object sender, EventArgs e)
    {
        try
        {
            double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
            double result = Math.Log(current);
            txtResult.Text = result.ToString();
        }
        catch { txtResult.Text = "Error"; }
    }

    private void btnAbs_Click(object sender, EventArgs e)
    {
        try
        {
            double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
            double result = Math.Abs(current);
            txtResult.Text = result.ToString();
        }
        catch { txtResult.Text = "Error"; }
    }

    private void btnPi_Click(object sender, EventArgs e)
```

```
        {
            txtResult.Text += Math.PI.ToString();
        }

        private void btnE_Click(object sender, EventArgs e)
        {
            txtResult.Text += Math.E.ToString();
        }

        private void btnKvandrat_Click(object sender, EventArgs e)
        {
            try
            {
                double current = string.IsNullOrEmpty(txtResult.Text) ? 0 :
Convert.ToDouble(txtResult.Text);
                double result = current * current;
                txtResult.Text = result.ToString();
            }
            catch { txtResult.Text = "Error"; }
        }

        private void btnDel_Click(object sender, EventArgs e)
        {
            if (txtResult.Text.Length > 0)
                txtResult.Text = txtResult.Text.Substring(0, txtResult.Text.Length - 1);
        }

        private void btnC_Click(object sender, EventArgs e)
        {
            txtResult.Text = "";
        }

        private void btnAns_Click(object sender, EventArgs e)
        {
            txtResult.Text += memory.ToString();
        }

        private void Sum_Click(object sender, EventArgs e)
        {
            try
            {
                string expression = txtResult.Text
                    .Replace("sqrt", "Math.Sqrt")
                    .Replace("sin", "Math.Sin")
                    .Replace("cos", "Math.Cos")
```

```
                .Replace("tan", "Math.Tan")
                .Replace("ln", "Math.Log")
                .Replace("log", "Math.Log10")
                .Replace("abs", "Math.Abs")
                .Replace("^2", "*" + txtResult.Text) // упрощенное возведение в
квадрат
                .Replace(",", ".");

            var result = new System.Data.DataTable().Compute(expression, null);
            memory = Convert.ToDouble(result);
            txtResult.Text = result.ToString();
        }
        catch (Exception ex)
        {
            txtResult.Text = "Error";
        }
    }

    private void Form1_Load(object sender, EventArgs e)
    {
        btn1.Click += Number_Click;
        btn2.Click += Number_Click;
        btn3.Click += Number_Click;
        btn4.Click += Number_Click;
        btn5.Click += Number_Click;
        btn6.Click += Number_Click;
        btn7.Click += Number_Click;
        btn8.Click += Number_Click;
        btn9.Click += Number_Click;
        btn0.Click += Number_Click;
    }

    private void btnSumma_Click(object sender, EventArgs e)
    {
        txtResult.Text = "";
    }

    private void btn9_Click(object sender, EventArgs e)
    {

    }
  }
}
```