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 uzduotis\_1

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void button1\_Click(object sender, EventArgs e)

{

richTextBox9.Clear();

int r = Convert.ToInt32(textBox11.Text);

int h = Convert.ToInt32(textBox10.Text);

double turis = RitinioTuris(r, h);

richTextBox9.Text += "v = " + turis.ToString();

double s = 2 \* Math.PI \* r \* (h + r);

double d = 2 \* Math.PI \* r \* h;

richTextBox9.Text += Environment.NewLine + "s = " + s.ToString();

richTextBox9.Text += Environment.NewLine + "d = " + d.ToString();

}

double RitinioTuris (double r, double h)

{

double v;

v = Math.PI \* Math.Pow(r, 2) \* h;

return v;

}

private void button2\_Click(object sender, EventArgs e)

{

richTextBox8.Clear();

int r = Convert.ToInt32(textBox12.Text);

double v = (double)3 / (double)4 \* Math.PI \* Math.Pow(r, 3);

double s = 4 \* Math.PI \* Math.Pow(r, 2);

richTextBox8.Text += "v = " + v.ToString();

richTextBox8.Text += Environment.NewLine + "s = " + s.ToString();

}

private void button3\_Click(object sender, EventArgs e)

{

richTextBox6.Clear();

int r1 = Convert.ToInt32(textBox14.Text);

int r2 = Convert.ToInt32(textBox15.Text);

int h = Convert.ToInt32(textBox13.Text);

double v = Math.PI \* h \* (Math.Pow(r1, 2) - Math.Pow(r2, 2)) ;

richTextBox6.Text += "v = " + v.ToString();

}

private void button4\_Click(object sender, EventArgs e)

{

richTextBox4.Clear();

int r = Convert.ToInt32(textBox17.Text);

int h = Convert.ToInt32(textBox16.Text);

double l = Math.Sqrt(Math.Pow(r, 2) + Math.Pow(h, 2));

textBox20.Text += "l = " + l.ToString();

double v = (double)1/(double)3 \* h;

double d = Math.PI \* r \* l;

double t = Math.PI \* r \* (r + l);

richTextBox4.Text += "v = " + v.ToString();

richTextBox4.Text += Environment.NewLine + "d = " + d.ToString();

richTextBox4.Text += Environment.NewLine + "t = " + t.ToString();

}

private void button5\_Click(object sender, EventArgs e)

{

richTextBox2.Clear();

int i = Convert.ToInt32(textBox28.Text);

int a = Convert.ToInt32(textBox21.Text);

if ((i % 2 != 0) && (a >= 0))

{

double ats = i \* Math.Sqrt(a);

richTextBox2.Text += "e = " + ats.ToString();

}

else if ((i % 2 == 0) && (a < 0))

{

double ats = i / 2 \* Math.Sqrt(Math.Abs(a));

richTextBox2.Text += "e = " + ats.ToString();

}

else {

double ats = Math.Sqrt(Math.Abs(i \* a));

richTextBox2.Text += "e = " + ats.ToString();

}

}

private void button6\_Click(object sender, EventArgs e)

{

richTextBox1.Clear();

double a = Convert.ToDouble(textBox18.Text);

double b = Convert.ToDouble(textBox19.Text);

int x = Convert.ToInt32(textBox29.Text);

if ((a\*b > 0.5) && (a\*b < 10))

{

double ats = Math.Pow(Math.E,Math.Abs(a)-Math.Abs(b));

richTextBox1.Text += "g = " + ats.ToString();

}

else if ((a \* b > 0.1) && (a \* b <= 0.5))

{

double ats = Math.Sqrt(Math.Abs(a+b));

richTextBox1.Text += "g = " + ats.ToString();

}

else

{

double ats = 2 \* Math.Pow(x,2);

richTextBox1.Text += "g = " + ats.ToString();

}

}

private void button7\_Click(object sender, EventArgs e)

{

richTextBox7.Clear();

int x = Convert.ToInt32(textBox27.Text);

int y = Convert.ToInt32(textBox26.Text);

if (x > y)

{

double ats = Math.Pow(x-y,3)+Math.Atan(x);

richTextBox7.Text += "d = " + ats.ToString();

}

else if (y > x)

{

double ats = Math.Pow(y - x,3) + Math.Atan(x);

richTextBox7.Text += "d = " + ats.ToString();

}

else

{

double ats = Math.Pow(y+x,2)+0.5;

richTextBox7.Text += "d = " + ats.ToString();

}

}

private void button8\_Click(object sender, EventArgs e)

{

richTextBox5.Clear();

int a = Convert.ToInt32(textBox25.Text);

int b = Convert.ToInt32(textBox24.Text);

int n = Convert.ToInt32(textBox30.Text);

if ((a - b < 0) && (a \* b < 0))

{

richTextBox5.Text = "Matematine klaida";

}

else

{

double m = 2 \* Math.Abs(n + Math.Sqrt(a \* b)) - Math.Sqrt(a - b);

richTextBox5.Text += "m = " + m.ToString();

}

}

private void button9\_Click(object sender, EventArgs e)

{

richTextBox3.Clear();

int x = Convert.ToInt32(textBox23.Text);

int y = Convert.ToInt32(textBox22.Text);

int z = Convert.ToInt32(textBox31.Text);

if((z - 3 < 0) && (z <= 0))

{

richTextBox3.Text = "Klaida";

}

else

{

double a = (8 - Math.Pow(x, 2)) \* Math.Sqrt(z - 3);

double b = ((x - y) \* (x - 2)) / z;

if(a>b)

{

richTextBox3.Clear();

richTextBox3.Text = "a > b";

}

else if (a == b)

{

richTextBox3.Clear();

richTextBox3.Text = "a = b";

}

else

{

richTextBox3.Clear();

richTextBox3.Text = "a < b";

}

}

}

}

}

