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 HW

{

public partial class frm\_Lab3\_Hw : Form

{

public frm\_Lab3\_Hw()

{

InitializeComponent();

listBox1.Items.Add("+");

listBox1.Items.Add("-");

listBox1.Items.Add("\*");

listBox1.Items.Add("/");

listBox1.SelectedIndex = 0;

}

private void frm\_Lab3\_Hw\_Load(object sender, EventArgs e)

{

txb\_Result.ReadOnly = true;

}

private void num1\_KeyPress(object sender, KeyPressEventArgs e)

{

if (num1.Text.Length == 0 && e.KeyChar == '-')

{

e.Handled = false;

}

else if (e.KeyChar == '-' && num1.Text.Contains("-"))

{

e.Handled = true;

}

else if (e.KeyChar == '.')

{

if ((sender as TextBox).Text.Contains("."))

e.Handled = true;

}

else if ((e.KeyChar < 48 || e.KeyChar > 57) && (e.KeyChar != 8) && e.KeyChar != 45 && e.KeyChar != 46)

{

e.Handled = true;

}

}

private void num2\_KeyPress(object sender, KeyPressEventArgs e)

{

if (num2.Text.Length == 0 && e.KeyChar == '-')

{

e.Handled = false;

}

else if (e.KeyChar == '-' && num2.Text.Contains("-"))

{

e.Handled = true;

}

else if (e.KeyChar == '.')

{

if ((sender as TextBox).Text.Contains("."))

e.Handled = true;

}

else if ((e.KeyChar < 48 || e.KeyChar > 57) && (e.KeyChar != 8) && e.KeyChar != 45 && e.KeyChar != 46)

{

e.Handled = true;

}

}

private void btn\_Exit\_Click(object sender, EventArgs e)

{

this.Close();

}

private void btn\_Clear\_Click(object sender, EventArgs e)

{

num1.Clear();

num2.Clear();

txb\_Result.Clear();

}

private void btn\_Sum\_Click(object sender, EventArgs e)

{

double n1 = 0;

double n2 = 0;

double res = 0;

try

{

n1 = Convert.ToDouble(num1.Text);

}

catch (Exception)

{

MessageBox.Show("Erorr Number one ", "Erorr", MessageBoxButtons.OK, MessageBoxIcon.Error);

num1.Text = "";

num1.Focus();

return;

}

try

{

n2 = Convert.ToDouble(num2.Text);

}

catch (Exception)

{

MessageBox.Show("Erorr Number 2", "Erorr", MessageBoxButtons.OK, MessageBoxIcon.Error);

num2.Text = "";

num2.Focus();

return;

}

bool f = true;

switch (listBox1.SelectedIndex)

{

default: break;

case 0:

res = n1 + n2;

break;

case 1:

res = n1 - n2;

break;

case 2:

res = n1 \* n2;

break;

case 3:

if (n2 != 0)

{

res = n1 / n2;

break;

}

else

{

MessageBox.Show("Error Divnation by zero ");

f = false;

txb\_Result.Clear();

break;

}

}

if (f)

{

txb\_Result.Text = Convert.ToString(res);

}

}

}

}