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\_Form1 : Form

{

public frm\_Lab3\_Form1()

{

InitializeComponent();

}

private void frm\_Lab3\_Form1\_Load(object sender, EventArgs e)

{

txbnum2.Enabled = false;

txbop1.Enabled = false;

txbnum3.Enabled = false;

txbop2.Enabled = false;

}

private bool IsHigherPriority(string op1, string op2)

{

if ((op1 == "\*" op1 == "/") && (op2 == "+" op2 == "-"))

return true;

return false;

}

private double AddTwoNumber(double num1, double num2, string op)

{

switch (op)

{

case "+":

return num1 + num2;

case "-":

return num1 - num2;

case "\*":

return num1 \* num2;

case "/":

return num2 != 0 ? num1 / num2 : double.NaN;

default:

return double.NaN;

}

}

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

{

double number1, number2, number3;

string opration1 = txbop1.Text;

string opration2 = txbop2.Text;

string interMediaResult = "";

string FinalResult = "";

// نتحقق من المدخلات

if (double.TryParse(txbnum1.Text, out number1) &&

double.TryParse(txbnum2.Text, out number2) &&

double.TryParse(txbnum3.Text, out number3))

{

// حساب العمليات بناءً على الأولوية

if (IsHigherPriority(opration1, opration2))

{

interMediaResult = AddTwoNumber(number1, number2, opration1).ToString();

if (interMediaResult == "NaN")

{

MessageBox.Show("العملية الاولى غير صحيحة ؟");

txbop1.Focus();

return;

}

FinalResult = AddTwoNumber(Convert.ToDouble(interMediaResult), number3, opration2).ToString();

}

else

{

interMediaResult = AddTwoNumber(number2, number3, opration2).ToString();

if (interMediaResult == "NaN")

{

MessageBox.Show("العملية الثانية غير صحيحة ؟");

txbop2.Focus();

return;

}

FinalResult = AddTwoNumber(number1, Convert.ToDouble(interMediaResult), opration1).ToString();

}

if (FinalResult == "NaN")

{

MessageBox.Show("العملية النهائية غير صحيحة ؟");

return;

}

txbresult.Text = FinalResult.ToString();

}

else

{

MessageBox.Show("يرجى إدخال أرقام صحيحة.");

}

}

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

{

if (MessageBox.Show("Do you want to close?", "Close", MessageBoxButtons.YesNo, MessageBoxIcon.Question) == DialogResult.Yes)

{

this.Close();

}

}

private void txbnum1\_TextChanged(object sender, EventArgs e)

{

if (txbnum1.Text != null)

{

txbop1.Enabled = true;

}

else

{

txbop1.Enabled = false;

txbnum3.Enabled = false;

txbop2.Enabled = false;

}

}

private void txbop1\_TextChanged(object sender, EventArgs e)

{

if (txbop1.Text == "+" txbop1.Text == "-" txbop1.Text == "\*" || txbop1.Text == "/")

{

txbnum2.Enabled = true;

}

else

{

txbnum3.Enabled = false;

txbop2.Enabled = false;

}

}

private void txbnum2\_TextChanged(object sender, EventArgs e)

{

if (txbnum2.Text != null)

{

txbop2.Enabled = true;

}

else

{

txbnum3.Enabled = false;

txbop2.Enabled = false;

}

}

private void txbop2\_TextChanged(object sender, EventArgs e)

{

if (txbop2.Text == "+" txbop2.Text == "-" txbop2.Text == "\*" || txbop2.Text == "/")

{

txbnum3.Enabled = true;

}

else

{

txbnum3.Enabled = false;

}

}

}

}