namespace ARITHMETIC

{

public partial class frmArithmetic : Form

{

public frmArithmetic()

{

InitializeComponent();

}

// adds the two numbers in the input boxes together

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

{

try

{

double z;

int y = int.Parse(txtIn2.Text);

int x = int.Parse(txtIn1.Text);

z = x + y;

lstOut.Items.Add(x.ToString("N0") + " + " + y.ToString("N0") + " = " + z.ToString("N0"));//displays equation and answer

}

catch (Exception)

{

MessageBox.Show("Error: Input string was not in a correct format");//if the input isn't a valid number, message box shows

return;

}

}

//subtracts the number in the second input box from the first one

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

{

try

{

double z;

int y = int.Parse(txtIn2.Text);

int x = int.Parse(txtIn1.Text);

z = x - y;

lstOut.Items.Add(x.ToString("N0") + " - " + y.ToString("N0") + " = " + z.ToString("N0"));//displays equation and answer

}

catch (Exception)

{

MessageBox.Show("Error: Input string was not in a correct format");

return;

}

}

// multiplys the two numbers in the input boxes

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

{

try

{

double z;

int y = int.Parse(txtIn2.Text);

int x = int.Parse(txtIn1.Text);

z = x \* y;

lstOut.Items.Add(x.ToString("N0") + " \* " + y.ToString("N0") + " = " + z.ToString("N0"));// displays equation and answer

}

catch (Exception)

{

MessageBox.Show("Error: Input string was not in a correct format");

return;

}

}

//chooses the bigger number of the two numbers that are in the input boxes

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

{

try

{

double z;

int y = int.Parse(txtIn2.Text);

int x = int.Parse(txtIn1.Text);

z = Math.Max(x, y);//chooses bigger number

lstOut.Items.Add("The bigger of " + x.ToString("N0") + " and " + y.ToString("N0") + " is " + z.ToString("N0"));//displays results

}

catch (Exception)

{

MessageBox.Show("Error: Input string was not in a correct format");

return;

}

}

//inputs random numbers between 1-100 into the input boxes

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

{

Random rnd1 = new Random();

int x = rnd1.Next(1, 101);

int y = rnd1.Next(1, 101);

txtIn1.Text = (x.ToString());

txtIn2.Text = (y.ToString());

int.Parse(txtIn1.Text);

int.Parse(txtIn2.Text);

if (x != rnd1.Next(1, 100))

{

MessageBox.Show("Error: Input string was not in a correct format");

}

}

//clears graphics, input box and resets the image to being visible if it was clicked prior

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

{

txtIn1.Clear();

txtIn2.Clear();

lstOut.Items.Clear();

txtIn1.Focus();

picMath.Show();

}

//hides picture when its clicked

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

{

picMath.Hide();

}

}

}