A screenshot of a cell phone

Description automatically generated

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Midterm 2

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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 ECE2310\_Midterm2

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void Form1\_Load(object sender, EventArgs e)

{

}

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

{

int n;

if (!Int32.TryParse(txtInput.Text, out n) || n < 0)

{

MessageBox.Show("Error, input must be positive number.", "Input Invalid!", MessageBoxButtons.OK, MessageBoxIcon.Error);

clearForm();

return;

}

Random rand = new Random();

for (int i = 0; i < n; i++)

{

seperate(rand.Next(0, 100000));

}

}

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

{

clearForm();

}

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

{

Close();

}

private void seperate(int num)

{

int n1 = (num % 100000) / 10000;

int n2 = (num % 10000) / 1000;

int n3 = (num % 1000) / 100;

int n4 = (num % 100) / 10;

int n5 = (num % 10);

int sum = n1 + n2 + n3 + n4 + n5;

listBox1.Items.Add($"{num} --> {n1} + {n2} + {n3} + {n4} + {n5} = {sum}");

}

private void clearForm()

{

listBox1.Items.Clear();

txtInput.Clear();

}

}

}