Graphical user interface, application

Description automatically generatedGraphical user interface

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A picture containing graphical user interface

Description automatically generated

**Code**

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;

using static System.Windows.Forms.VisualStyles.VisualStyleElement;

namespace Midterm\_1A

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

public static int[] Separate(int input)

{

int[] number = new int[5] { 0 , 0 , 0 , 0 , 0};

int count = 4;

while (input > 0)

{

number[count] = input % 10;

input /= 10;

count--;

Console.WriteLine(number);

}

return number;

}

private void Main\_Btn\_Click(object sender, EventArgs e)

{

int User\_Input;

String User\_Input\_Validation = Input\_Box.Text;

bool validation = int.TryParse(User\_Input\_Validation, out User\_Input);

if (validation)

{

if (User\_Input > 0 && User\_Input < 99999 )

{

int repetition = Convert.ToInt16(Input\_Box.Text);

Random rand = new Random();

int total;

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

{

int number = rand.Next(0, 99999);

int[] digits = Separate(number);

total = digits.Sum();

Lista\_Box.Items.Add(number + "\t" + digits[0] + " + " + digits[1] + " + " + digits[2] + " + " + digits[3] + " + " + digits[4] + " = " + total);

}

}

else

{

MessageBox.Show("Only numbers within the range of 0-99999");

}

}

else

{

MessageBox.Show("Integers only");

}

}

}

}