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COP2360 C# Programming I

# Module 3 - ASSIGNMENT Chapter 5 - Problem 13: Random Number File Writer

SCREENSHOTS:

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

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 System.IO;

namespace Random\_Number\_File\_Writer

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

//exit button

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

{

this.Close();

}

//generation button

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

{

//try to catch possible errors

try

{

//initializing varible to accept user input

int amountRand;

//initializing outputFile variable

StreamWriter outputFile;

//testing if user input was acceptable

if (int.TryParse(userInputBox.Text, out amountRand))

{

//checking if the user presses save or cancel

if (saveFile.ShowDialog() == DialogResult.OK)

{

//creating output file with name choosen by user

outputFile = File.CreateText(saveFile.FileName);

//initializing count for the for loop

int count;

//for loop to pretest and control the amount of numbers that generate

for (count = amountRand; count > 0; count--)

{

int number;

Random rand = new Random();

number = rand.Next(1,101);

outputFile.WriteLine(number);

itemsListBox.Items.Add(number);

}

//closing file

outputFile.Close();

}

else

{

MessageBox.Show("Operation canceled.");

}

}

else

{

MessageBox.Show("Please enter a valid amount of numbers to generate.");

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message);

}

}

//clearing out values in application

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

{

itemsListBox.Items.Clear();

userInputBox.Text = "";

userInputBox.Focus();

}

}

}

//Collaboration Statement: I worked alone