Ahmad Jarara 202220696

using System;

using System.Windows.Forms;

namespace GuessTheNumberGame

{

public partial class MainForm : Form

{

private int targetNumber;

private bool gameActive;

public MainForm()

{

InitializeComponent();

StartNewGame();

}

private void StartNewGame()

{

targetNumber = new Random().Next(1, 1001);

gameActive = true;

SetGameUI("I have a number between 1 and 1000 -- can you guess my number?", System.Drawing.Color.Black);

}

private void SetGameUI(string message, System.Drawing.Color textColor)

{

labelFeedback.Text = message;

labelFeedback.ForeColor = textColor;

BackColor = System.Drawing.Color.White;

textBoxGuess.Clear();

textBoxGuess.Enabled = gameActive;

buttonSubmit.Enabled = gameActive;

}

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

{

if (!gameActive)

{

MessageBox.Show("Please start a new game.", "Game Over");

return;

}

if (int.TryParse(textBoxGuess.Text, out int userGuess))

CheckGuess(userGuess);

else

MessageBox.Show("Please enter a valid number.", "Invalid Input");

}

private void CheckGuess(int guess)

{

int difference = Math.Abs(guess - targetNumber);

if (difference == 0)

{

MessageBox.Show("Correct!", "Congratulations");

gameActive = false;

SetGameUI("", System.Drawing.Color.Black);

BackColor = System.Drawing.Color.Green;

}

else

{

SetGameUI(difference < 10 ? "Warmer" : "Colder", difference < 10 ? System.Drawing.Color.Red : System.Drawing.Color.Blue);

}

}

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

{

StartNewGame();

}

}

}