IT117 – Assignment 6 – Sort order

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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 Week7\_Assignment

{

public partial class Form1 : Form

{

int[] scores; //declare array

public Form1()

{

InitializeComponent();

int intx, num = this.listBox1.Items.Count; //declare variables

scores = new int[num];

for (intx = 0; intx < num; intx++)

scores[intx] = Convert.ToInt32(this.listBox1.Items[intx].ToString()); //convert the listbox items to integers

Array.Sort(scores); // sort listbox items

}

private void button1\_Click(object sender, EventArgs e)

{

string fullsort = " "; //declare string variables

string oddsort = " ";

string evensort = " ";

foreach (string item in listBox1.Items)

{

fullsort += item + "\n ";

}

if (radioButton1.Checked == true)

{

this.richTextBox1.Text = "Here is the Full List\n" + fullsort; //the full list is sorted in the rich text box

}

if (radioButton2.Checked == true)

{

foreach (string item in listBox1.Items)

if (Convert.ToInt32(item) % 2 == 0) //converting to integer and displaying only even nos. in the richtextbox

evensort += item + "\n ";

this.richTextBox1.Text = "Here is the Even List\n" + evensort;

}

else if (radioButton3.Checked == true)

{

foreach (string item in listBox1.Items)

if (Convert.ToInt32(item) % 2 != 0) //converting to integer and displaying only odd nos. in the richtextbox

oddsort += item + "\n ";

this.richTextBox1.Text = "Here is the Odd List\n" + oddsort;

}

}

private void button2\_Click(object sender, EventArgs e)

{

int intx, intcount = 0; //calculation to find out the number of times the particular number occurs

int num1 = Convert.ToInt32(this.textBox2.Text);

for (intx = 0; intx < scores.Length; intx++)

if (scores[intx] == num1) intcount++;

this.richTextBox1.Text = "The number " + num1.ToString() + " occurs " + intcount.ToString() + " times";

}

private void button3\_Click(object sender, EventArgs e)

//calculation to find out the numbers divisible by the given number

{

string divisibleList = " ";

int intDivisible = Convert.ToInt32(this.textBox3.Text);

foreach (string item in listBox1.Items)

if (Convert.ToInt32(item) % intDivisible == 0)

divisibleList += item + "\n ";

this.richTextBox1.Text = "These are the numbers divisible by " + intDivisible + "\n" + divisibleList;

}

private void button4\_Click(object sender, EventArgs e)

{

string higherList = " "; //calculation to find out the numbers higher than the given number

int intHigher = Convert.ToInt32(this.textBox4.Text);

foreach (string item in listBox1.Items)

if (Convert.ToInt32(item) > intHigher)

higherList += item + "\n ";

this.richTextBox1.Text = "These are the numbers higher than " + intHigher + "\n" + higherList;

}

private void listBox1\_SelectedIndexChanged(object sender, EventArgs e){}

private void radioButton1\_CheckedChanged(object sender, EventArgs e){}

}

}

