

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Text;

using System.Windows.Forms;

namespace fall\_2015winarray

{

 public partial class Form1 : Form

 {

 int[,] grade = new int[25, 4];

 string[] name = new string[25];

 public Form1()

 {

 int a, b;

 InitializeComponent();

 for (a = 1; a < 25; a++)

 {

 name[a] = "";

 for (b = 1; b < 4; b++)

 grade[a, b] = 0;

 }

 }

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

 {

 //write

 int a;

 for (a = 1; a < 25; a++)

 {

 if (name[a] == "")

 {

 break;

 }

 }

 name[a] = textBox1.Text;

 grade[a, 1] = Convert.ToInt16(textBox2.Text);

 grade[a, 2] = Convert.ToInt16(textBox3.Text);

 grade[a, 3] = Convert.ToInt16(textBox4.Text);

 textBox1.Text = "";

 textBox2.Text = "";

 textBox3.Text = "";

 textBox4.Text = "";

 textBox5.Text = "";

 MessageBox.Show(a.ToString());

 }

 private void textBox4\_TextChanged(object sender, EventArgs e)

 {

 int a, b, c, d;

 if ((textBox2.Text != "") && (textBox3.Text != "") && (textBox4.Text != ""))

 {

 a = Convert.ToInt16(textBox2.Text);

 b = Convert.ToInt16(textBox3.Text);

 c = Convert.ToInt16(textBox4.Text);

 d = (a + b + c) / 3;

 textBox5.Text = d.ToString();

 }

 }

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

 {

 //class avr

 int Avr =0, Grade = 0 ;

 int i,j;

 for (i = 1; i < 25; i++)

 {

 if (name[i] == "")

 break;

 }

 for (j = 1; j < i; j++)

 {

 Grade = Grade + grade[j, 1];

 Grade = Grade + grade[j, 2];

 Grade = Grade + grade[j, 3];

 }

 Avr = Grade / ((i - 1) \* 3);

 //MessageBox.Show("avr = "+Avr.ToString());

 //MessageBox.Show("i-1 = "+(i-1));

 //MessageBox.Show("i-1\*3 = " + ((i - 1) \* 3));

 textBox5.Text = Avr.ToString();

 }

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

 {

 //Highest avr

 int a, b, c=0, d=0, i;

 for (i = 1; i < 25; i++)

 {

 if (name[i] == "")

 break;

 a = grade[i, 1];

 a += grade[i, 2];

 a += grade[i, 3];

 b = a / 3;

 if (c < b)

 {

 c = b;

 d = i;

 }

 }

 textBox1.Text = name[d];

 }

 }

}