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 quiz1\_BMI\_calc

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

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

{

txtFeet.BackColor = Color.White;

txtInch.BackColor = Color.White;

txtLbs.BackColor = Color.White;

txtBMI.Text = "";

string str1, str2, str3;

double num1 =0, num2=0, num3=0, result=0;

bool v11 = Double.TryParse(txtFeet.Text, out num1);

bool v21 = Double.TryParse(txtInch.Text, out num2);

bool v31 = Double.TryParse(txtLbs.Text, out num3);

if (v11 & v21 & v31 & num1 > 0 & num2 >= 0 && num2 < 12 && num3 > 0)

{

num1 = (num1 \* 12) + num2;

num1 = num1 \* num1;

num3 = num3 \* 705;

result = num3 / num1;

result = Math.Round(result, 1);

txtBMI.Text = Convert.ToString(result);

if(result < 18.5)

{

MessageBox.Show("Underweight");

}

else if (result >= 18.5 && result < 25)

{

MessageBox.Show("Normal weight");

}

else if (result >= 25 && result < 30)

{

MessageBox.Show("Overweight");

}

else if (result >= 30)

{

MessageBox.Show("Obesity");

}

}

else if (!v11)

{

MessageBox.Show("Invalid input of height"); //shows box

txtFeet.BackColor = Color.Red;

}

else if (num1 < 0)

{

MessageBox.Show("Invalid input of height, enter a positive number."); //shows box

txtFeet.BackColor = Color.Red;

}

else if (!v21)

{

MessageBox.Show("Invalid input of height in inches"); //shows box

txtInch.BackColor = Color.Red;

}

else if (num2 < 0 || num2 >= 12)

{

MessageBox.Show("Invalid input of inches, out of range."); //shows box

txtInch.BackColor = Color.Red;

}

else if (!v31)

{

MessageBox.Show("Invalid input of weight"); //shows box

txtLbs.BackColor = Color.Red;

}

else if (num3 < 0)

{

MessageBox.Show("Invalid input of weight, enter a positive number."); //shows box

txtLbs.BackColor = Color.Red;

}

else;

}

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

{

if (System.Text.RegularExpressions.Regex.IsMatch(txtFeet.Text, "[^0-9]"))

{

MessageBox.Show("Please enter only numbers.");

txtFeet.Text = txtFeet.Text.Remove(txtFeet.Text.Length - 1);

}

}

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

{

if (System.Text.RegularExpressions.Regex.IsMatch(txtInch.Text, "[^0-9]"))

{

MessageBox.Show("Please enter only numbers.");

txtInch.Text = txtInch.Text.Remove(txtInch.Text.Length - 1);

}

}

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

{

if (System.Text.RegularExpressions.Regex.IsMatch(txtLbs.Text, "[^0-9]"))

{

MessageBox.Show("Please enter only numbers.");

txtLbs.Text = txtLbs.Text.Remove(txtLbs.Text.Length - 1);

}

}

}

}