import java.awt.event.\*;

import java.awt.\*;

import javax.swing.\*;

import java.util.Scanner;

public class bmi implements ActionListener

{

JTextField height, weight, bmi, classification;

JButton bmiButton;

bmi()

{

JFrame myFrame = new JFrame("Body Mass Index Calculator");

myFrame.setVisible(true);

JLabel heightLabel = new JLabel("Height (m)");

heightLabel.setBounds(20, 20, 80, 30);

height = new JTextField();

height.setBounds(100, 20, 200, 30);

JLabel weightLabel = new JLabel("Weight (kg)");

weightLabel.setBounds(20, 75, 80, 30);

weight = new JTextField();

weight.setBounds(100, 75, 200, 30);

bmiButton = new JButton("BMI");

bmiButton.setBounds(20, 130, 80, 30);

bmi = new JTextField();

bmi.setBounds(100, 130, 200, 30);

bmi.setEditable(false);

JLabel classificationLabel = new JLabel("Classification");

classificationLabel.setBounds(20, 185, 80, 30);

classification = new JTextField();

classification.setBounds(100, 185, 200, 30);

classification.setEditable(false);

JLabel categoriesLabel = new JLabel("BMI Categories:");

categoriesLabel.setBounds(20, 250, 150, 30);

JLabel underweightLabel = new JLabel("Underweight = <18.5");

underweightLabel.setBounds(20, 280, 150, 30);

JLabel normalweightLabel = new JLabel("Normal weight = 18.5 – 24.9");

normalweightLabel.setBounds(20, 310, 200, 30);

JLabel overweightLabel = new JLabel("Overweight = 25 – 29.9");

overweightLabel.setBounds(20, 340, 150, 30);

JLabel obesityLabel = new JLabel("Obesity = >29.9");

obesityLabel.setBounds(20, 370, 150, 30);

bmiButton.addActionListener(this);

myFrame.add(heightLabel);

myFrame.add(height);

myFrame.add(weightLabel);

myFrame.add(weight);

myFrame.add(classificationLabel);

myFrame.add(classification);

myFrame.add(categoriesLabel);

myFrame.add(underweightLabel);

myFrame.add(normalweightLabel);

myFrame.add(overweightLabel);

myFrame.add(obesityLabel);

myFrame.add(bmiButton);

myFrame.add(bmi);

Cursor bmiButtonCursor = new Cursor(Cursor.HAND\_CURSOR);

bmiButton.setCursor(bmiButtonCursor);

myFrame.setSize(450, 450);

myFrame.setLayout(null);

}

@Override

public void actionPerformed(ActionEvent e)

{

String h1 = height.getText();

String w2 = weight.getText();

double a = Double.parseDouble(h1);

double b = Double.parseDouble(w2);

double c = 0;

if (e.getSource() == bmiButton)

{

c = b / (a \* a);

String bmi1 = String.valueOf(c);

bmi.setText(bmi1 + " kg/m2");

if (c >= 30)

{

classification.setText("Obesity");

classification.setBounds(100, 185, 200, 30);

classification.setEditable(false);

}

else if (c >= 25 && c <= 29.9)

{

classification.setText("Overweight");

classification.setBounds(100, 185, 200, 30);

classification.setEditable(false);

}

else if (c >= 18.5 && c <= 24.9)

{

classification.setText("Normal");

classification.setBounds(100, 185, 200, 30);

classification.setEditable(false);

}

else

{

classification.setText("Underweight");

classification.setBounds(100, 185, 200, 30);

classification.setEditable(false);

}

}

}

public static void main(String[] args)

{

new bmi();

//BMI Categories:

//Underweight = <18.5

//Normal weight = 18.5–24.9

//Overweight = 25–29.9

//Obesity = BMI of 30 or greater

}

}