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2
       Chapter 3
                       Body Mass Assignment
 3
       Programmer:
                       Mike Brown
 4
       Date:
                       March 26, 2009
 5
                       BodyMassApplet.java
       Program Name:
 6
       Purpose:
                       Calculate the BMI of Sun Fitnesses Customers
 7
    */
 8
 9
   import java.applet.*;
10
   import java.awt.*;
11
12
   import java.awt.event.*;
13
14 public class BodyMassApplet extends Applet implements ActionListener
15
16
        //declare variables
17
        Image logo; //declare an image object
18
        int inches, pounds;
        double meters, kilograms, index;
19
20
21
        //construct components
22
        Label companyLabel = new Label ("The Sun Fitness Center Body Mass
        Index Calculator");
23
        Label heightLabel = new Label("Enter your height to the nearest inch:
        ");
24
            TextField heightField = new TextField(10);
25
        Label weightLabel = new Label ("Enter your weight to the nearest pound:
26
            TextField weightField = new TextField(10);
        Button calcButton = new Button("Calculate");
27
        Label outputLabel = new Label("Click the Calculate button to see your
28
        body mass index.");
29
30
            public void init()
31
32
                setForeground(Color.red);
33
                add(companyLabel);
                add(heightLabel);
34
35
                add(heightField);
36
                add(weightLabel);
37
                add(weightField);
38
                add(calcButton);
                calcButton.addActionListener(this);
39
40
                add(outputLabel);
41
                logo = getImage(getDocumentBase(), "logo.gif");
42
43
            public void actionPerformed(ActionEvent e)
44
45
                inches = Integer.parseInt(heightField.getText());
46
47
                pounds = Integer.parseInt(weightField.getText());
48
                meters = inches / 39.36;
49
                kilograms = pounds / 2.2;
50
                index = kilograms / Math.pow(meters, 2);
51
                outputLabel.setText("Your Body Mass Index is " + Math.round(
                index) + ".");
52
53
54
            public void paint(Graphics g)
55
56
                g.drawImage(logo, 125, 160, this);
57
58
59
60
61
62
```