

## Chapter 13 Laboratory Exercise

### Prelab Assignment

1. What is the difference between a radio button and a check box?
2. How does the BorderLayout manager differ from the GridLayout manager?
3. How does a Java Canvas differ from a Java Panel?
4. Write the code for an HTML page that displays a Java applet called BodyMass.class with size 400 by 800?.

5. Rewrite the Java code for the BodyMass application discussed in Chapter 13 of the text to make it an applet?

## Chapter 13 Laboratory Exercise

1. Write and test a Java program that displays 5 multiple choice questions on a subject of your choice. Make use of radio buttons or check boxes as appropriate. Your program should check the user's answers and display the number correct.

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2. Rewrite your program from Exercise 1 as a Java applet and test it using a web browser.

3. Use your program from Exercise 1 as the basis for an opinion poll program that displays five questions with horizontal scrollbars that allow the user to indicate his or her level of agreement (0% to 100%) with each statement. Your program should display the values read for each question when the user is done.

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### Postlab Questions

1. Which control (check box or scrollbar) seemed easier to use?
2. How much work would it have been to convert the program you wrote for Exercise 3 to a Java applet?
3. Could the applet version of your quiz program write the user's answers in a data file? Why or why not?
4. What strategy can think of to award partial credit in a program that grades tests containing short answer questions? Assume the questions require 2 or 3 word answers and that students get credit for each correct word.