Project 6

CS 1323, Fall 2015

# Learning Objectives

1. Write a method that uses at least one parameter. (10 points)
2. Pass arguments to parameters during a method call. (20 points)
3. Return a value from a method. (10 points)
4. Call a single method many times. (20 points)
5. Use only one Scanner object in your program. (10 points)
6. Enter data using String objects. (10 points)
7. Use the equals() method in the String class. (10 points)

10 points will be awarded for the proper documentation of the program, including meaningful comments, proper indentation, proper use of whitespace, and meaningful variable names.

Section 10: This project may be submitted and graded in lab, or on the Janux dropbox by 11:59 p.m. on Monday, October 5. Students in this section must attend the lab to receive credit.

Sections 1 and 995: This project should be submitted in the Janux dropbox by 11:59 p.m on October 5.

# Description

Making repetitive code shorter and easier to understand was one of the purposes of loops. Methods can also serve this purpose. We will implement the Psychology Today quiz again, using methods to make the program more simple to implement. As a result, we'll be able to do the full quiz instead of just a small portion like we did last time. The program you produce should be shorter than your original program, in spite of the fact that it is doing much more work.

The Psychology Today quiz is still located here: <http://www.psychologytoday.com/blog/just-listen/201010/are-you-stressed-out-take-the-quiz>

You should create two methods. One method will ask the user the question from the quiz, get their response and return it to the main method as either a 0 (no) or a 1 (yes). This method must allow the user to enter Yes or No. The method signature is below:

public static int askQuizQuestion(String prompt, Scanner keyboard)

The other method should print out the quiz results given the number of questions that were answered positively. The method signature is below:

public static void printSurveyResults(int answerCount)

You are free to use the code you wrote previously as a starting point for the program. Remember to make necessary changes.

# Programming Hint

Some of the questions in the quiz use quotes. This causes problems in String objects since a quote ends a String. The proper way to handle this problem is by using an escape character (in this case the backslash--just like the one we use in newlines) before the quote, so instead of ", you use \". To print out "erase" (with the quotes), I would use the following code:

System.out.println("\"erase\"");

The first and last quotes are what tells Java this is a String. the other two escaped quotes cause the quotes to be put around erase.