Session 3 (Java 1) Instructor Notes

- 1.Review homework 2
- 2.Ask: any review topics to cover?
- 3.New material:
 final
 Packages and imports
 Instance and static initializers
 Pass by value vs. pass by ref
- 4.In-class exercise: Develop blackboard inheritance tree from **Animal** to **SiameseCat**

Coding exercise: SiameseCat and ancestor classes; use
initializers and override/overload
SiameseCat class

Create an animal package. Put (3) classes into it: Fish, Mammal, and Reptile. Add one attribute and one behavior to each. Create a animal.cat package. Put (2) classes into it: Bobcat and Siamese. Add a protected boolean to Mammal called eggs and set to false. Set eggs to true in Reptile. Siamese should have a parent of Mammal. Use an import for Mammal. Add the following to Siamese: (3) static final fields: blue eye color and brown fur color, and a String array with (3) names of your choice. Initialize the names with a static initializer. Create a main() method. Have a constructor that initializes a name attribute. Create and instance of Siamese using the name constructor and print the value of eggs.

5. "Truthiness" in Java. What's in a format string: review java.util. Formatter

Coding exercise: Truthiness class to test int 0, empty string,
null, and false using %b format

- 6.Never lost: Stalking the Java API Have students find some random classes Focus on java.lang package, in particular the System class for how to read API doc
- 7.Junit and TDD intro
 Quick overview of a simple test snippet
- 8.Github intro: how to get class assignments