Session 1 (Java 1) Instructor Notes

Review syllabus, discuss IDE (Eclipse, or your choice), required book

1. Spot check on basics covered in Java Intro class (Chaps. 1 – 3 of Java Tutorials book). Go over material as needed.
2. Chalk talk on inheritance, encapsulation notions. Skip polymorphism for now.
3. New material:
   Anatomy of a class
   Public and package-private instance variables and methods
   Static variables and methods
   Constructors, default and overloaded
   "this" and "super"
4. Coding exercise: Account class
   Create a class representing a bank account. The class should have state fields (instance variables) for the account balance, owner's name

   The class should have methods to set the account owner's name deposit to the account withdraw from the account; the method should check to make sure that the withdrawal does not overdraw the account

   Print account status on one line showing the account owner's name and the account balance

   Create a class with a main() method that exercises the bank account class above. The application should

   create two account objects
   set the owner's name differently for each account object
   deposit to the first account
   withdraw from the first account; the amount should be less than the new balance
   show the status of the first account
   deposit to the second account
   withdraw from the second account; the amount should be more than the new balance; this should fail, and the application should print an error message
   withdraw from the second account; the amount should now be less than the new balance; this should succeed
   show the status of the second account
5. Homework overview