

COMP 1451 Lab 6-a (2 points)

For this lab you will work with a partner.

Create a BlueJ project to model a simple inheritance hierarchy.

A cat has these attributes and behaviors:

- breed, e.g. Siamese
- weight in kilos, e.g. 2.4
- hunts (true or false)
- the ability to report its status by displaying something like this:
This is one lazy cat!
This is a Persian weighing 4.5 kilos.
or
This is a hunter!
This is a Siamese weighing 2.3 kilos.

A dog has these attributes and behaviors:

- weight in kilos
- breed, e.g. Collie
- likes to walk (true or false)
- the ability to report its status by displaying something like this:
This is a Collie weighing 16.0 kilos.
This dog likes to walk.
or
This is a Saint Bernard weighing 34.5 kilos.
This is a lazy dog!

For this lab DO NOT write accessor methods for the fields.

Cats and dogs both go on holiday in an animal hotel. The animal hotel has the ability to accept new guests and print information about all its guests. Note that the cat reports its hunting ability before its breed and weight, whereas the dog reports its breed and weight first.

Override the toString() method to produce the guest information. Do not write a print method for Cat or Dog. Use toString() to generate the needed information. Only the animal hotel should have a method that displays information on the screen.

Demonstrate your completed project to your instructor or TA before leaving the lab and be sure we have checked it off for each member of the team. A suggested solution will be given during the next class and labs that have not been checked off will not receive any points.

If you have to miss class it is your responsibility to do the lab at home and submit it to the appropriate D2L dropbox before next class.