Objectives: Introduction to objects

Object methods 'this field'

Static Review -True/False?

- A common use of static variables is to create constants. For example, public static final String MESG = "Abort? Retry? Fail?"
- 1. T/F? Static methods are class methods.
- 2. T/F? Static methods require an object.
- 3. T/F? Class names usually start with an uppercase letter.
- 4. T/F? Methods names usually start with a lowercase letter.

Correct the mistakes:

- 5. You create static fields from inside a method.
- e.g. To create a static variable you would write the following...
 public class MyStringUtils {
 public static String addPadding(String s) {
 static char PADDINGCHAR =' ';
 while (s.length() < 10) { s = s + PADDINGCHAR; }
 return s;
 }
- 6. T/F? You must call static methods using 'ClassName.methodName(arguments)'
- 7. T/F? Classsssss aka sssstatic variables are removed when you return from your method.

Goodbye static class methods. Hello OBJECTS

```
class Label {
   String name;
   int x, y;
   public void setName(String n) { this.name = n;}
   public void printMe() { System.out.println(this.name); }
}
Elsewhere...
   Label ptr = new Label ();
   ptr.setName("Fred");
   ptr.printMe();
```

Create a Pacman Ghost class, initialize it and use an instance method to make it move one unit to the right.

```
Create the House class so that the following code compiles and runs correctly.
```

House h = new House(); h.setStreet("101 Main St");

h.equals(otherHouse); returns true iff houses have same street string