Group exercises # 1

- 1) Consider an object called space shuttle. Among the following, select what would describe the state of the object, and what would be a behavior of the object.
 - a. The speed of the shuttle when reentering the Earth atmosphere.
 - b. The maximum payload that the shuttle can carry.
 - c. The act of docking the shuttle to the international space station.
 - d. The act of starting the shuttle engine.
- 2) For each of the objects listed below, give the name of a class that this object could be an instance of. Name the class following the Java style guidelines.

Example: for the object "a cell phone", a possible class name could be CommunicationDevice. Don't just restate the name of the object for the name of the class (e.g. CellPhone).

- a. A pair of glasses
- b. A wallet
- c. A movie theater
- d. A Walmart store
- e. A subtraction such as 8 2 = 6
- f. A novel

}

3) Draw the class diagram for the following class:

```
public class Dog {
 private String name;
 private intage;
 public Dog(String n, int a) {
        // code
}
 public void bark() {
       //code
 }
 public boolean eat(String food) {
      // code
}
```