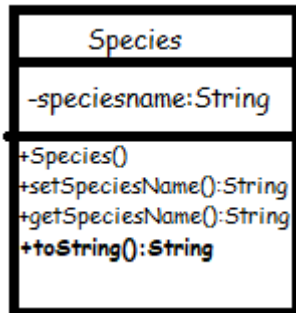


### Question set 1

A) genus is the parent class of species

B) specimen derives from species class



C)

D) 1. they can easily see the individual animals and where they are kept with the code

2. they can more easily keep track of the animals

E) i. because it is being overridden

ii. override

### Question set 2

A) Encapsulation in Java is a mechanism of wrapping the data (variables) and code acting on the data (methods) together as a single unit. In encapsulation, the variables of a class will be hidden from other classes, and can be accessed only through the methods of their current class.

B) Encapsulation protects an object from unwanted access by clients.

Encapsulation allows access to a level without revealing the complex details below that level.

C) getcage()

D) name

F) Adv: specimen can inherit from species class

disadv: specimen will need to have more code in it, potentially cluttering the class

### Question Set 3

A) You would need to state which part of the animal has the marking, potentially creating new instances and variables in which the markings are, and what type of markings they are. Ex. Stripes, spots, etc

### Question Set 4

A) It exports a type.

It exports a set of operations. This set is called interface