

Universidad de las Fuerzas Armadas ESPE

Object Oriented Programming

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Homework #15

Topic: Abstraction override functions

```
n(String[] args) {
(x: "---> Abstract by Antonio Revilla\n");
                                         Doos/abo.
Animal animal= new Animal (0, "Snake", new Date(), 1);
ArrayListChimal> animals = new ArrayList();
animals.add(-animal);
System.out.println("animal -> " + animal);
System.out.println("animal type" + animal.getClass());
                                          animal=new Snake(size:5, scales: "If you have scales", cole
System.out.println("animal --> " + animal);
System.out.println("animal type" + animal.getClass());
                                          animal=new Snake(size:5, scales: "If you have scales", cold
System.out.println("animal --> " + animal);
System.out.println("animal type" + animal.getClass());
                                          Snake snake = new Snake(size: 7, reales: "If you have scales", coldinaded: true, id: 2, releasificExame: "Serpentes", new Date(), captid: 2, rpine: "spine small", animals.add(: snake):
                                         snake.changeOfSkin();
                                          animals.add(e: snake);
                                          System.out.println(=: "\n ZOO ANIMALS");
System.out.println(=: animals);
System.out.println("total animals -->" + animals.size());
        Animal is abstract; cannot be instantiated
        May split declaration into a declaration and assignment
[] arg
       (Alt-Enter shows hints)
                                                                                             POLYM
                           Animal animal = new Animal();
                                     • • • • •
                                     public void cleaningCage(int id){
    System.out.println("assigned cage ready for cleaning --> " + id);
    cageId = id;
                                      8Override
public String toString() {
                                    @Override
public void feed() {
    System.out.println(=: "Snake feeding on mice");
}
                                       public Snake(int size, String scales, boolean coldBlooded, int id, String scientificName, Date bornDate, int cageId, String spine, int numberOfBones) {
    super(scales, coldBlooded, id, scientificName, bornDate, cageId, spine,
    this.size = size;
          ec.edu.espe.systemzoo.control
                                                                     5
                                                                         - /**
          ec.edu.espe.systemzoo.model
                                                                     6
                                                                                Turtle is not abstract and does not override abstract method breathe() in Animal
               Amphibians.java
                                                                     7
               Animal.java
                                                                              (Alt-Enter shows hints)
                                                                     8
               Ceacilian.java
                                                                     Q
                                                                                public class Turtle extends Reptile{
               Chameleon.java
                                                                    10
                                                                                     private int shellHardness;
               Cocodile.java
                                                                    11
                                                                                       private boolean aquatic;
               Frog.java
                                                                    12

▲ Lizard.java

                                                                    13
                                                                                        @Override
               Mewt.java
                                                                     3
                                                                                        public void feed() {
               Reptile.java
                                                                    15
                                                                                              System.out.println(x: "Turtles feeding on al
               Salamander.java
                                                                    16
               Snake.java
                                                                   17
               Toad.java
                                                                   18
                                                                                        public Turtle(int shellHardness, boolean aquati
               Turtle.java
                                                                   19
                                                                                              super(scales, coldBlooded, id, scientificNa
               ☑ Vertebrate.java
                                                                                                this.shellHardness = shellHardness;
                                                                   20
         ec.edu.espe.systemzoo.view
                                                                    21
                                                                                                this.aquatic = aquatic;
              🐴 Zoo.java
                                                                    22
    Test Packages
```

