Eduardo García

OOP

14575

8. EDUARDO DAVID GARCIA ROMERO

```
Animal animal = new Mammal(numberOfMammaryGlands: 0, id: 0, scientificName: "", new Date(), cageId: 0, spine: "", numberOfBones: 0));
ArrayList<Animal> animals = new ArrayList<>();
animals.add(s: animal);
System.out.println("animal type is --> " + animal.getClass().getName());
System.out.println("animal --> " + animal);
System.out.println("animal type" + animal.getClass());

animal = new Platypus(poisonous: true, poisonGlands:0, numberOfMammaryGlands: 0, id: 0, scientificName: "platypus scientific", new Date(), cageId: 0, spine: "spine small", numberOfBones: 0));
animals.add(s: animal);
System.out.println("animal --> " + animal);
System.out.println("animal type" + animal.getClass());

animal = new Giraffe(numberOfMammaryGlands: 0, id: 0, scientificName: "girafus", new Date(), cageId: 0, spine: "big spine", numberOfBones: 0));
System.out.println("animal --> " + animal);
System.out.println("animal type" + animal.getClass());
//animal.brushNeck();
```

ec.edu.espe zoo.view Zoo > main >

ut - Zoo (run) ×

run:

```
animal type is --> ec.edu.espe.zoo.model.Mammal
animal --> Mammal{Vertebrate{
 - Animal{id=0, scientificName=, bornDate=Mon Jan 15 09:51:05 ECT 2024, cageId=0}spine=, numberOfBones=0}numberOfMammaryGlands=0}
animal typeclass ec.edu.espe.zoo.model.Mammal
animal --> Platypus{Mammal{Vertebrate{
 - Animal{id=0, scientificName=platypus scientific, bornDate=Mon Jan 15 09:51:05 ECT 2024, cageId=0}spine=spine small, numberOfBones=0}numberOfMammaryGlands=0}poisoness=true, p
animal typeclass ec.edu.espe.zoo.model.Platypus
animal --> Giraffe{Mammal{vertebrate{
 - Animal{id=0, scientificName=girafus, bornDate=Mon Jan 15 09:51:05 ECT 2024, cageId=0}spine=big spine, numberOfBones=0}numberOfMammaryGlands=0}}
animal typeclass ec.edu.espe.zoo.model.Giraffe
other Giraffe --> Giraffe{Mammal{Vertebrate{
 - Animal{id=2, scientificName=giraffa, bornDate=Thu Feb 01 00:00:00 ECT 3923, cageId=3}spine=long, numberOfBones=206}numberOfMammaryGlands=4}}
brushing the neck of the giraffe
giraffe is breastfeeding
giraffe is breastfeeding its calf number --> 1
```

ZOO ANIMALS

```
16
17    public static void main(String[] args) {
18        System.out.println(x: "----> ABSTRACT CLA
          Animal animal = new Mammal(0, 0, "", new
20        ArrayList<Animal> animals = new ArrayLis
```

```
animal type is --> Giraffe
animal --> Giraffe{Mammal{Vertebrate{
 - Animal{id=0, scientificName=gir, bornDate=Mon Jan 15 09:59:57 ECT 2024, cageId=0}spine=heav
animal typeclass ec.edu.espe.zoo.model.Giraffe
animal --> Platypus{Mammal{Vertebrate{
 - Animal{id=0, scientificName=platypus scientific, bornDate=Mon Jan 15 09:59:57 ECT 2024, cag
animal typeclass ec.edu.espe.zoo.model.Platypus
animal --> Giraffe{Mammal{Vertebrate{
 - Animal{id=0, scientificName=girafus, bornDate=Mon Jan 15 09:59:57 ECT 2024, cageId=0}spine
animal typeclass ec.edu.espe.zoo.model.Giraffe
other Giraffe --> Giraffe{Mammal{Vertebrate{
 - Animal{id=2, scientificName=giraffa, bornDate=Thu Feb 01 00:00:00 ECT 3923, cageId=3}spine
brushing the neck of the giraffe
giraffe is breastfeeding
giraffe is breastfeeding its calf number --> 1

ZOO ANIMALS
```

```java
     */
    public class Platypus extends Mammal{
        private boolean poisoness;
        private int poisonGlands;

        @Override
        public String toString() {
            return "Platypus{" + super.toStr
        }

        |
```

@author Eduardo García, HoneyBadgers, DCCO - ESPE

```java
/
public class Zoo {
    public static void main(String[] args) {
        System.out.println("------> ABSTRACT CLASSES by EDUARDO GARCÍA");
        Animal animal = new Giraffe(0, "heavy", 0, 0, "gir", new Date(), 0);
        ArrayList<Animal> animals = new ArrayList<>();
        animals.add(animal);
        System.out.println("animal type is -->" + animal.getClass().getSimpleName());
        System.out.println("animal--> " + animal);
        System.out.println("animal type" + animal.getClass());

        animal = new Platypus(true, 0, 0, "spine small", 0, 0, "platypus scientific", new Date(), 0);
        animals.add(animal);
        System.out.println("animal--> " + animal);
        System.out.println("animal type" + animal.getClass());

        System.out.println("\n");
        animal.feed();
        System.out.println("\n");

        animal = new Giraffe(0, "big spine", 0, 0, "girafus", new Date(), 0);
        System.out.println("animal--> " + animal);
        System.out.println("animal type" + animal.getClass());
        //animal.brushNeck();

        animal.assignCage(20);
        Giraffe giraffe = new Giraffe(4, "long", 206, 2, "Giraffe", new Date(2023, 1, 1), 3);
        animals.add(giraffe);
        System.out.println("other giraffe" + giraffe);
        giraffe.assignCage(25);
        System.out.println("\n");
        giraffe.feed();
        System.out.println("\n");

        giraffe.brushNeck();

        giraffe.breastfeed();
        giraffe.breastfeed(1);

        System.out.println("\n ZOO ANIMALS");
        System.out.println(animals);
        System.out.println("total animals-->" + animals.size());
```