

```

1  package ec.edu.espe.zoo.view;
2
3  import ec.edu.espe.zoo.model.Animal;
4  import ec.edu.espe.zoo.model.Giraffe;
5  import ec.edu.espe.zoo.model.Mammal;
6  import ec.edu.espe.zoo.model.Platypus;
7  import java.util.ArrayList;
8  import java.util.Date;
9
10
11  /**
12   *
13   * @author Carlos
14   */
15  public class Zoo {
16      public static void main(String[] args) {
17          System.out.println("Ah Enter shows here");
18          Animal animal = new Mammal(0, 0, "", new Date(1, 0, "", 0));
19          System.out.println("animal-->" + animal);
20          System.out.println("animal type-->" + animal.getClass().getSimpleName());
21
22          ArrayList<Animal> animals = new ArrayList<>();
23          animals.add(animal);
24      }
25  }

```

Output - Zoo\_Abstarction (run) x

```
run:
----> ABSTRACT CLASSES by Carlos Hernandez
animal--->Giraffe[Mammal|Vertebrate{
- Animal{id=0, scientificName=gir, bornDate=Mon Jan 15 10:00:00 ECT 2024, cageId=0}spine=heavy, numberOfBones=0}number
animal type--->Giraffe
```

Exam1  
Exam1P [main]  
IceCreamMain [main]  
Source Packages  
ec.edu.espe.icecream.model  
ec.edu.espe.icecream.utils  
ec.edu.espe.icecream.view  
Libraries  
IceCreamMain2  
Person  
Pruebas  
Taxes  
Testsilbings  
Zoo  
Zoo\_Abstarction  
Source Packages  
ec.edu.espe.zoo.controller  
ec.edu.espe.zoo.model  
Animal.java  
Giraffe.java  
Invertebrate.java  
Mammal.java  
Platypus.java  
Vertebrate.java

ec.edu.espe.zoo.controller  
ec.edu.espe.zoo.model  
Animal.java  
Giraffe.java  
Mammal.java  
Platypus.java  
Vertebrate.java  
ec.edu.espe.zoo.view  
Zoo.java  
Test Packages  
Libraries  
Test Libraries

```
6 /**
7 Platypus is not abstract and does not override abstract method feed() in Animal
8 ****
9 (Alt-Enter shows hints)
10
11 public class Platypus extends Mammal {
12     private boolean poisoness;
13     private int poisonGlands;
14
15     public Platypus(boolean poisoness, int poisonGlands,
16                     super(numberOfMammaryGlands, id, scientificName, 1
17                         this.poisoness = poisoness;
18                         this.poisonGlands = poisonGlands;
19     }
20
21     @Override
22     public String toString() {
23         return "Platypus{" + super.toString() + "poisoness"
24     }
25
26     /**
27      * @return the poisoness
28      */
29     public boolean isPoisoness() {
30         return poisoness;
31     }
32 }
```

```
31 animal = new Giraffe(numberOfMammaryGlands: 0, id: 0, scientificName: "Girafus", new Date(), cage
32 System.out.println("Animal--->" + animal);
33
34 System.out.println("animal type--->" + animal.getClass());
```

Output - Zoo\_Abstarction (run) x  
animal type--->class ec.edu.espe.zoo.model.Platypus

Feeding Platypus with small fish and wores

```
Animal--->Giraffe[Mammal|Vertebrate{
- Animal{id=0, scientificName=Girafus, bornDate=Mon Jan 15 10:33:55 ECT 2024, cageId=0}spine=big spine, r
animal type--->class 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, number:
brushing the neck of the giraffe
Feeding giraffe with grass
assign cage number -->25
```