



# UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE



**CLASS NAME: OBJECT ORIENTED  
PROGRAMMING**

**TEACHER: EDISON LASCANO**

**NRC:14575**

**WORKSHOP # 28**

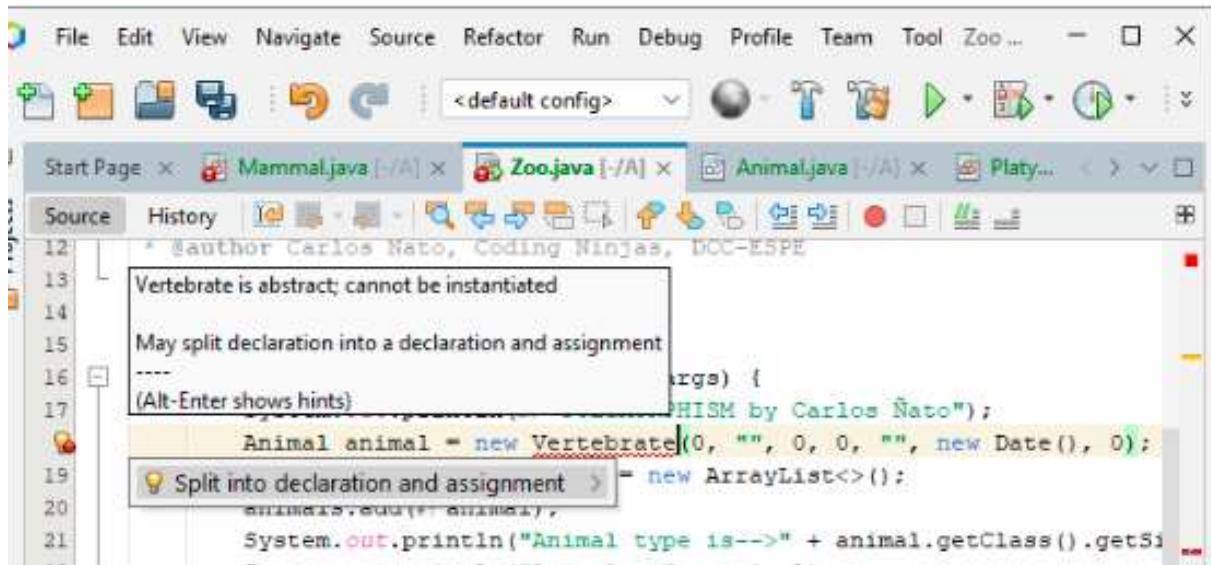
**TOPIC: Abstraction**

**NAME: CARLOS ÑATO**

```

15
16 public static void main(String[] args) {
17     System.out.println("POLYMORPHISM by Carlos Nato");
18     Animal animal = new Animal(0, "", 0, 0, "", new Date(), 0);
19     ArrayList<Animal> animals = new ArrayList<>();

```

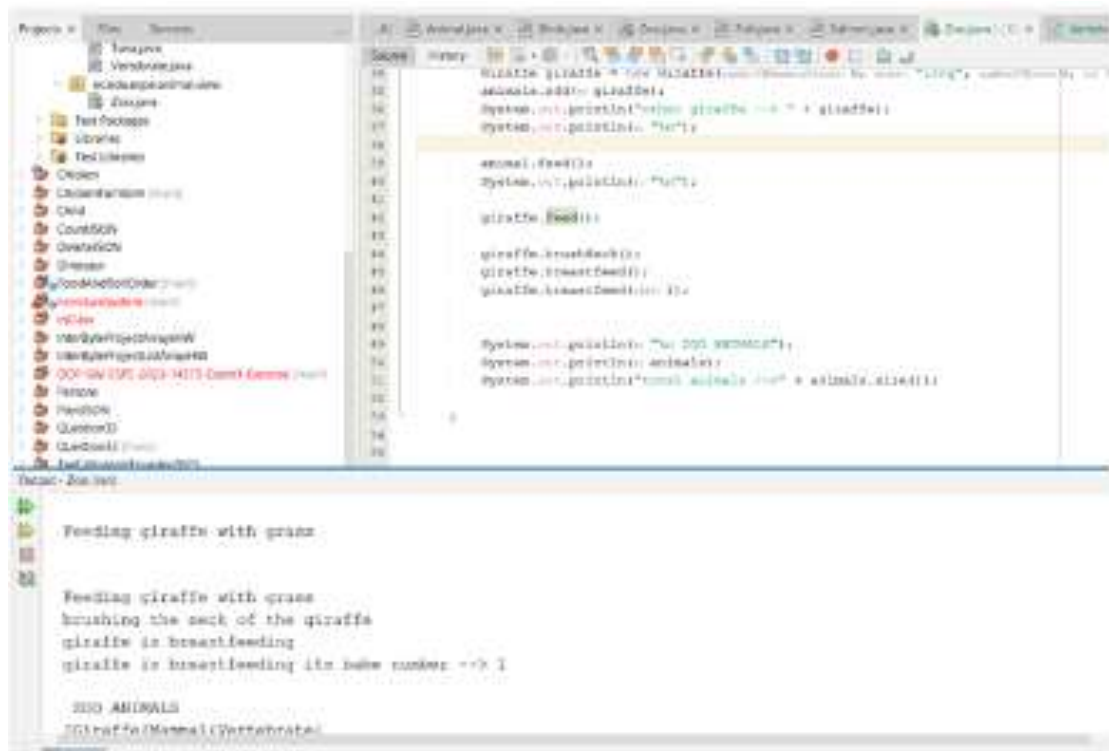
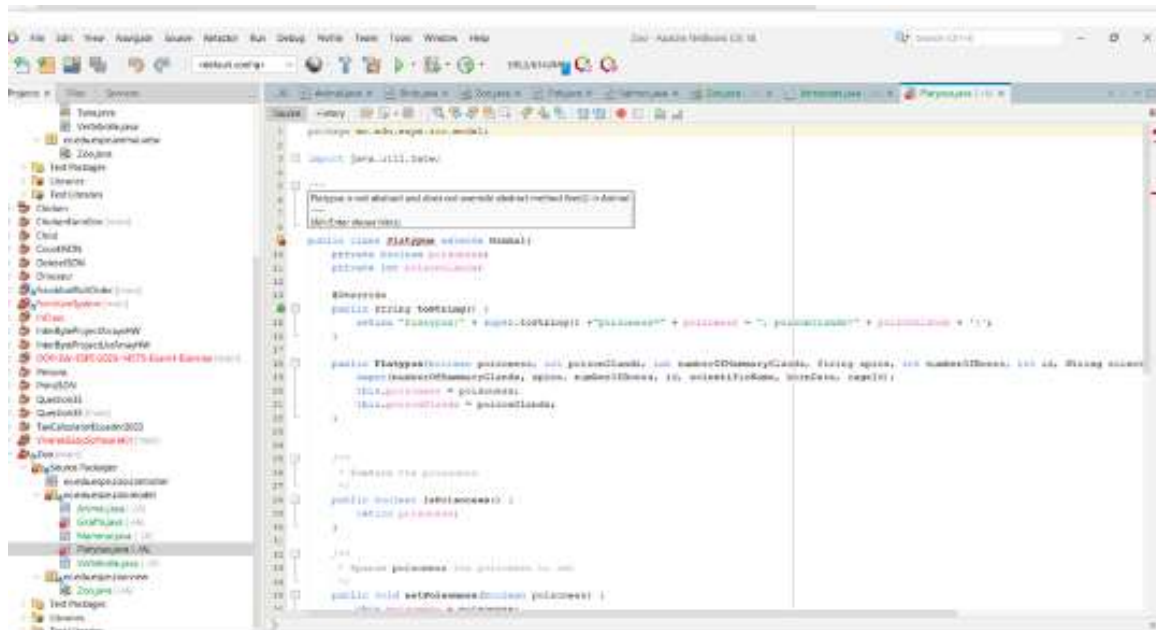


```

animal --> Giraffe(Mammal|Vertebrate)
- Animal{id=0, scientificName=, bornDate=Mon Jan 15 10:00:39 ECT 2024, cageId=0|spine=, numberOfBones=0|numberOfMammaryGlands=0}
animal typeclass ec.edu.espe.uoo.modelo.Giraffe
animal --> Platypus(Mammal|Vertebrate)
- Animal{id=0, scientificName=platypus scientific, bornDate=Mon Jan 15 10:00:39 ECT 2024, cageId=0|spine=spine small, numberOfBones=0|numberOfMammaryGla
animal typeclass ec.edu.espe.uoo.modelo.Platypus
animal --> Giraffe(Mammal|Vertebrate)
- Animal{id=0, scientificName=giraffe, bornDate=Mon Jan 15 10:00:39 ECT 2024, cageId=0|spine=big spine, numberOfBones=0|numberOfMammaryGlands=0}
animal typeclass ec.edu.espe.uoo.modelo.Giraffe
other giraffe --> Giraffe(Mammal|Vertebrate)
- Animal{id=0, scientificName=giraffe, bornDate=Thu Feb 01 00:00:00 ECT 2023, cageId=0|spine=long, numberOfBones=0|numberOfMammaryGlands=0}
brushing the neck of the giraffe
giraffe is breastfeeding
giraffe is breastfeeding its tube number --> 1.

200 ANIMALS
[Giraffe(Mammal|Vertebrate)
- Animal{id=0, scientificName=, bornDate=Mon Jan 15 10:00:39 ECT 2024, cageId=0|spine=, numberOfBones=0|numberOfMammaryGlands=0}, Platypus(Mammal|Verte
- Animal{id=0, scientificName=platypus scientific, bornDate=Mon Jan 15 10:00:39 ECT 2024, cageId=0|spine=spine small, numberOfBones=0|numberOfMammaryGla
- Animal{id=0, scientificName=giraffe, bornDate=Thu Feb 01 00:00:00 ECT 2023, cageId=0|spine=long, numberOfBones=0|numberOfMammaryGlands=0}]

```



```
Animal.java X Birds.java X Zoo.java X Fish.java X Salmon.java X Zoo.java
Source History
34 Giraffe giraffe = new Giraffe(numberOfMammaryGlands: 0, spine: "long", no
35 animals.add(giraffe);
36 System.out.println("other giraffe --> " + giraffe);
37 System.out.println("\n");
38
39 animal.feed();
40 System.out.println("\n");
41
42 giraffe.feed();
43
44 giraffe.brushNeck();
45 giraffe.breastfeed();
46 giraffe.breastfeed(calf: 1);
47
48
49 System.out.println("\n ZOO ANIMALS");
50 System.out.println(animals);
51 System.out.println("total animals --> " + animals.size());
52
53 }
54
```