

## UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE



**CLASS NAME:** OBJECT ORIENTED

**PROGRAMMING** 

**TEACHER: EDISON LASCANO** 

NRC:14575

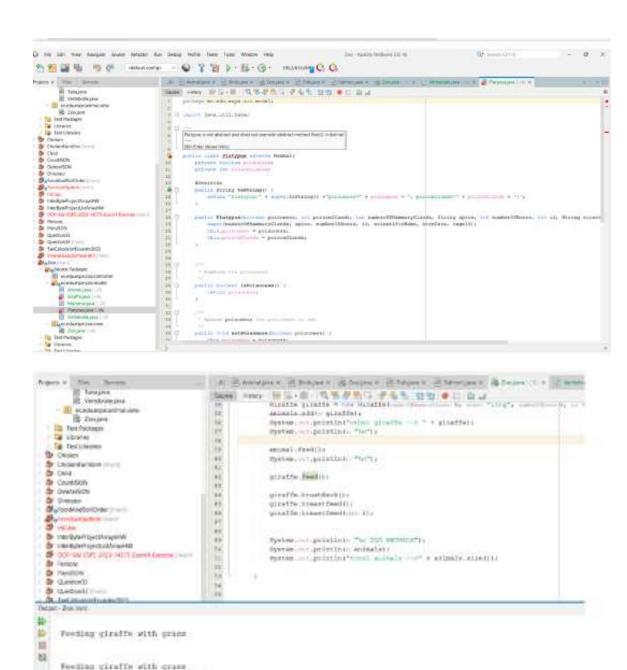
**WORKSHOP #28** 

**TOPIC:** Abstraction

**NAME: CARLOS ÑATO** 

```
15
                 public static void main(String[] args) {
  16
                       System.out.println(=: "POLYMORPHISM by Carlos Nato");
   17
                       Animal animal = new Animal(0, "", 0, 0, "", new Date(), 0);
    6
   19
                       ArrayList<Animal> animals = new ArrayList<>();
   File Edit View Navigate Source Refactor Run Debug Profile Team Tool Zoo ...
                                                                                                          X
                                           < default config>
   Start Page X B Mammal.java A X B Zoo.java A X D Animal.java A X B Platy... > V
             Source
             * Sauthor Carlos Nato, Coding Ninjas, DCC-ESPE
   12
   13
            Vertebrate is abstract; cannot be instantiated
   14
   15
            May split declaration into a declaration and assignment
   16 E
                                                                 rgs) {
            (Alt-Enter shows hints)
   17
                                                                 HISM by Carlos Nato");
                       Animal animal = new Vertebrate(0, "", 0, 0, "", new Date(), 0);
    8
   19
                                                           = new ArrayList<>();
             Split into declaration and assignment
   20
                       animais.adu(* animai),
                       System.out.println("Animal type is-->" + animal.getClass().getSi
   21
                                         . . . . . . . . . .
                                                         -
animal -->Giraffo(Marmal(Vertebrate)
- Animal(id-0, relambificHame-, bernDate-Mos Jan 15 10:00:19 SCT 2024, capsId-0):prime-, manbecOfBorer-0;manbarOfMannaryGlands-0))
animal typeclass sciences, respectively.
minul ->Platypus(Manual)Verteboate(
- Animal(id=0, occeptific@emerplatypes ocientific, bornData=Nos der 15 10:10:39 ECT 2024, capald=0)spins-opine mail, susperOffsoer=0(burderOffsmarryDia
animal typeclars or educate. Non-model Platyger
animal - whitesframed (Vertebrate)
1001/bm2
 - Animalita-D, accentificAsse-gizzfis, birnüste-Mos dan 18 10:00:10 %CT 2014, nageld-lispiae-blg spize, numberOffscnae-UposberOffsamaryGlands-0))
animal typeclans ec.edu.mepe.rso.modal.Giruffw
other giraffe -> Giraffe/Massai/Vertebrete; - Zaimai/18-5, subertifoNous-giraffe, bornhare-the Veb 01 (OrD0105 &ct 3505, capeld-Orspise-long, numberOffenese-UnamberOffmanaryOlande-01:
brushing the seck of the guarffe
plyaffe in towartfeeding
piraffe is breatfeeding its take number --> 1
200 ANTHOLD
(Garatie (Mannal (Vertebrate)
```

- Animalid-6, scientificKess-, burDete-Mos fan 19 10:00:19 ETT 2024, ceptd-0)spine-, numberOfBoret-O)numberOfRessaryGlamfe-0)), flatypur(MassaryGlamfe-0), flatypur(MassaryGlamfe-0), flatypur(MassaryGlamfe-0), captd-0)spine-ppine-small, scalestifickes-o);numberOfMassaryGlamfe-0);numberOfMassaryGl



brushing the seck of the giraffe giraffe is breastfeeding

JGS raffa (Manna) (Vartabrate)

2010 ANDRALS

giraffe is breestfeeding its bale number --> I

```
_A) @ Animal.java × @ Birds.java × @ Zoo.java × @ Fish.java × @ Salmon.java × @ Zoo.java
      Source
34
             Giraffe giraffe = new Giraffe(numberOffarmaryGlands: U, spine: "long", m
35
             animals.add(+: giraffe);
36
             System.out.println("other giraffe --> " + giraffe);
             System.out.println(=: "\n");
37
30
39
             animal.feed();
40
             System.out.println(m "\n");
41
             giraffe.feed();
42
43
44
             giraffe.brushNeck();
45
             giraffe.breastfeed();
             giraffe.breastfeed(mlf: 1);
46
47
40
45
             System.out.println(w "\n 200 ANIMALS");
50
             System.out.println(:: animals);
             System.out.println("total animals -->" + animals.size());
51
52
53
54
```