



SEMESTRE MAYO- AGOSTO

Name: Jefferson David Yépez Morán

NRC: 14575

Activity: WS27 – Overriding&Overloading

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Zoo - Apache NetBeans IDE 19
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<default config>
e:ec.edu.espe.zoo
  Animal.java
  Ant.java
  Arthropods.java
  Butterfly.java
  Clam.java
  Crab.java
  Grasshopper.java
  Invertebrate.java
  Mollusk.java
  Octopus.java
  Oyster.java
  Snail.java
  Spider.java
  Squid.java
  Vertebrate.java
  ZooSystem.java
  ZooSystemTest.java

main - Navigator
Members
  ZooSystem
    main(String[] args)

Source
21 System.out.println("Animaltype: " + animal.getClass());
22
23 animal = new Snail(shellType:"heavy shell", movementSpeed:9, shell: true, buvalve: false);
24 System.out.println("Animal ----> " + animal);
25 System.out.println("Animaltype: " + animal.getClass());
26
27 Ant ant = new Ant(numberOfLegs: 8, colonyTypes: "big colony", foodCarrying: true, sensoryAntennae: true);
28 System.out.println("Animal ----> " + ant);
29 System.out.println("Animaltype: " + ant.getClass());
30
31 ant.feeding();
32 String type = "herbivores";
33 ant.feeding(type);
34
35 }

Arthropods.java
7 author Jefferson Yezpe - Bit Coders - DCCO ESPE
8
9 c class Arthropods extends Invertebrate {
10     private String sensoryAntennae;
11     private String diverseReproduction;
12     private boolean metamorphosis;
13
14     public void feeding() {
15         System.out.println("Arthropods have several types of nutriti
16     }
17
18     public Arthropods(String sensoryAntennae, String diverseReproduct
19         super(exoskeleton, numberOfLegs, antennae, id, scientificName
20         this.sensoryAntennae = sensoryAntennae;
21         this.diverseReproduction = diverseReproduction;
22         this.metamorphosis = metamorphosis;
23     }
24 }

Ant.java
10 private int numberOfLeg;
11 private String colonyTypes;
12 private boolean foodCarrying;
13
14 @Override
15 public void feeding() {
16     System.out.println("The ant's type of food is omnivores.");
17 }
18
19 public void feeding(String type) {
20     System.out.println("The ant's type of food is ----> " + type);
21 }
22
23 public Ant(int numberOfLeg, String colonyTypes, boolean foodCarrying, String se
24     super(sensoryAntennae, diverseReproduction, metamorphosis, exoskeleton, mm
25     this.numberOfLeg = numberOfLeg;
26 }

Output - Run (ZooSystem)
--- exec:3.1.0:exec (default-cli) @ ZooSystem ---
Animal ----> Animal{id=1, scientificName=Crab, bornOnDate=Sat
Animaltype: class ec.edu.espe.zoo.model.Animal
Animal ----> Crab{Arthropods{Invertebrate{Animal{id=2, scienti
Animaltype: class ec.edu.espe.zoo.model.Crab
Animal ----> Snail{Mollusks{Invertebrate{Animal{id=3, scienti
Animaltype: class ec.edu.espe.zoo.model.Snail
Animal ----> Ant{Arthropods{Invertebrate{Animal{id=4, scienti
Animaltype: class ec.edu.espe.zoo.model.Ant
The ant's type of food is omnivores.
The ant's type of food is ----> herbivores
-----
BUILD SUCCESS
Total time: 1.254 s
```



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