



SEMESTRE MAYO- AGOSTO

Name: Jefferson David Yépez Morán

NRC: 14575

Activity: HW15 – zooProgramming

The screenshot shows the Apache NetBeans IDE interface. The main editor displays the `ZooSystem.java` file, which contains a `main` method that creates and prints information for three animals: `Crab`, `Crab`, and `Snail`. The `Crab` class is defined in `Crab.java` and the `Snail` class is defined in `Snail.java`. The `main` method in `ZooSystem.java` creates instances of these classes and prints their details, including their scientific names, birth dates, cage IDs, and whether they have exoskeletons or shells.

```
11 //
12
13 public class ZooSystem {
14     public static void main(String[] args) {
15         Animal animal = new Animal(id: 1, scientificName: "Crab", new Date(), cageId: 1);
16         System.out.println("Animal ---> " + animal);
17         System.out.println("Animaltype: " + animal.getClass());
18
19         animal = new Crab(type: "small crab", powerfulClass: true, eatInsects: true, sensoryAntennae: "big antennae", diverseReproduction: "repro
20         System.out.println("Animal ---> " + animal);
21         System.out.println("Animaltype: " + animal.getClass());
22
23         animal = new Snail(shellType: "heavy shell", movementSpeed: 9, shell: true, bivalve: false, tentacles: 3, exoskeleton: true, numberOfLegs: 3, an
24         System.out.println("Animal ---> " + animal);
25         System.out.println("Animaltype: " + animal.getClass());
26     }
27 }
```

The output window shows the following results:

```
--- compiler:3.11.0:compile (default-compile) @ ZooSystem ---
Nothing to compile - all classes are up to date

--- exec:3.11.0:exec (default-cli) @ ZooSystem ---
Animal ---> Animal(id=1, scientificName=Crab, bornOnDate=Sun Jan 14 20:42:19 COT 2024, cageId=1)
Animaltype: class ec.edu.espe.zoo.model.Animal
Animal ---> Crab(Arthropods(Invertebrate(Animal(id=2, scientificName=Crab blue, bornOnDate=Sun Jan 14 20:42:19 COT 2024, cageId=2)exoskeleton=true, mu
Animaltype: class ec.edu.espe.zoo.model.Crab
Animal ---> Snail(Mollusks(Invertebrate(Animal(id=3, scientificName=Snail big, bornOnDate=Sun Jan 14 20:42:19 COT 2024, cageId=3)exoskeleton=true, mu
Animaltype: class ec.edu.espe.zoo.model.Snail

BUILD SUCCESS
```