**CLASS NAME: OBJECT ORIENTED** 

PROGRAMMING TEACHER: EDISON

LASCANO NRC: 14575

**HOMEWORK #:** 15

TOPIC: Abstraction override functions

## DAVID GUSTAVO CEPEDA SALGUERO

```
Vertebrate is not abstract and does not override abstract method feed() in Animal
 (Alt-Enter shows hints)
 public class Vertebrate extends Animal (
     private String spines
     private int numberOfBones;
     public Vertebrate (String spine, int numberOfBones, int id, String scientific Name
          super(id, scientificName, bornDate, cageId);
this.spine = spine;
          this, number of Hones = number of Bones;
     80verride
     public String toString() (
         return "Vertebrate(" + super.toString() + "spine" + spine + ", numberOfRon-
      * Greture the spine
     public String getSpine() (
         return spiner
 3 E import java.util.Date:
        Birds is not abstract and does not override abstract method feed() in Animal
6 0
        Create Test Class
       (Alt-Enter shows hints)
84
       public class Birds extends Vertebrate (
11
           private String speciesName;
            private boolean isMigratory;
13
           private String birdColor;
14
15 □
           public Birds (String speciesName, boolean isMigratory, String birdColo
                 super(spine, numberOfBones, id, scientificName, bornDate, cageId)
16
17
                 this.speciesName = speciesName;
                 this.isMigratory = isMigratory;
this.birdColor = birdColor;
18
19
20
21
22
           public void migrate() (
@ E
                 System.out.println(x: "Bird is migrating");
24
25
     Fish is not abstract and does not override abstract method feed() in Animal
     (Alt-Enter shows hints)
     public class Pish extends Vertebrate (
        private String habitatType;
         private boolean issaltwater;
         private String speciesName;
        private String fishColor;
         public Fish(String habitatType, boolean isSaltwater, String speciesName
             super(spine, numberOfBones, id, scientificName, bornDate, cageId);
this.hebitatType = habitatType;
             this.isSaltwater = isSaltwater;
this.speciesName = speciesName;
29
              this.fishColor = fishColor;
```

```
* #author David
 6
7
8
10
11
       public class Tuna extends Fish (
       12
13 🖯
          public Tuna (boolean is FastSwimmer, double averageSize, String ha
 14
15
             super(habitatType, isSaltwater, speciesName, fishColor, spir
this.isFaccSwimmer = isFastSwimmer;
this.averageSize = averageSize;
 16
17
 10
 19
          @Override
  .
          public String toString() (
            return "Tuna(" + super.toString() + "isFastSwimmer=" + isFas
22
23
24 E
25
 22
          * Sreturn the isFastSwimmer
 Projects A Files Services
 Animal
   Source Packages
        ec.edu.espe.animal.controller
      Animal.java
Birds.java
           Canary.java
           Clownfish.java
           Crow.java
           Eagle.java
           Fish.java
           Owl.java
           Penguin.java
           Salmon.java
Shark.java
           Troat.java
           Tuna.java
           Vertebrate.java
        ec.edu.espe.animal.view
           Zoo.java
   Test Packages
```



