



UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE

CLASS NAME: OBJECT ORIENTED PROGRAMMING

TEACHER: EDISON LASCANO

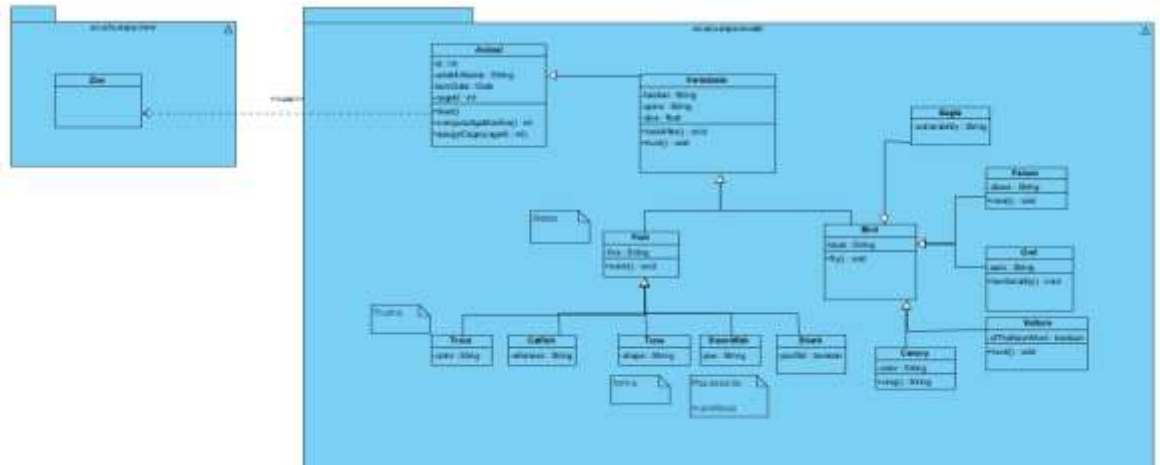
NRC:14575



HOME WORK # 15

TOPIC: Abstraction_override_functions

NAME: CARLOS ÑATO



MyZoo - Apache NetBeans IDE 19

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

<default config>

Projects: DailyDev [main] Herencia [main] Mi_Libreria_Personal [0000000...] MyZoo [main]

Source Packages: ec.edu.espe.zoo.controller ec.edu.espe.zoo.model

ec.edu.espe.zoo.model: Animal.java [~/M] Bird.java [~/A] Canary.java [~/M] Eagle.java [R/M] Falcon.java [R/M] Fish.java [~/A] Owl.java [R/M] Shark.java Swordfish.java Trout.java Tuna.java Vertebrate.java [~/M] Vulture.java [~/M]

ec.edu.espe.zoo.model.Catfish

ec.edu.espe.zoo.view: Zoo.java [~/M]

Test Packages Libraries Test Libraries Zoo [main]

Start Page Zoo.java [~/M] Canary.java [~/M] Animal.java [~/M]

Source History

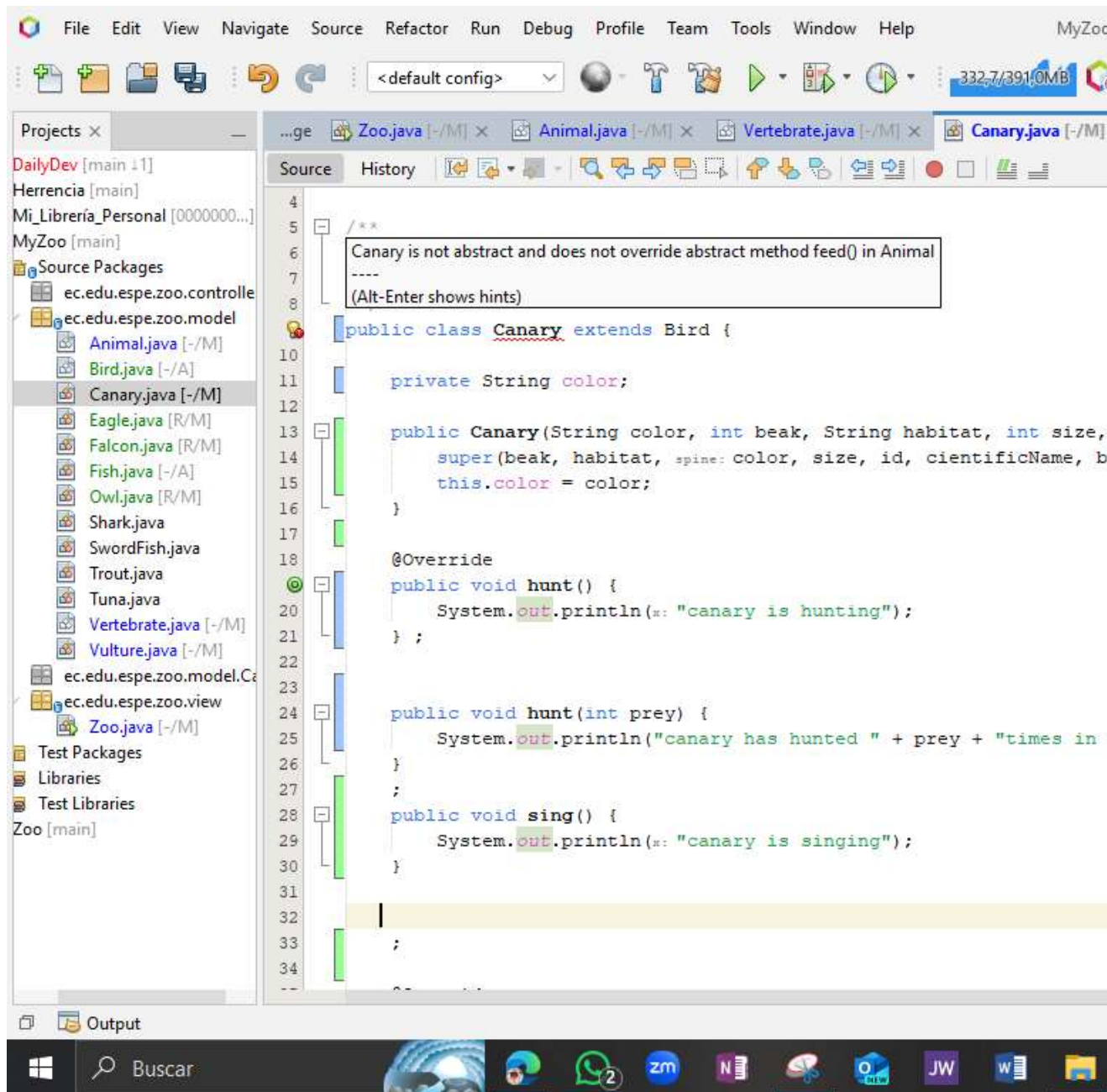
```

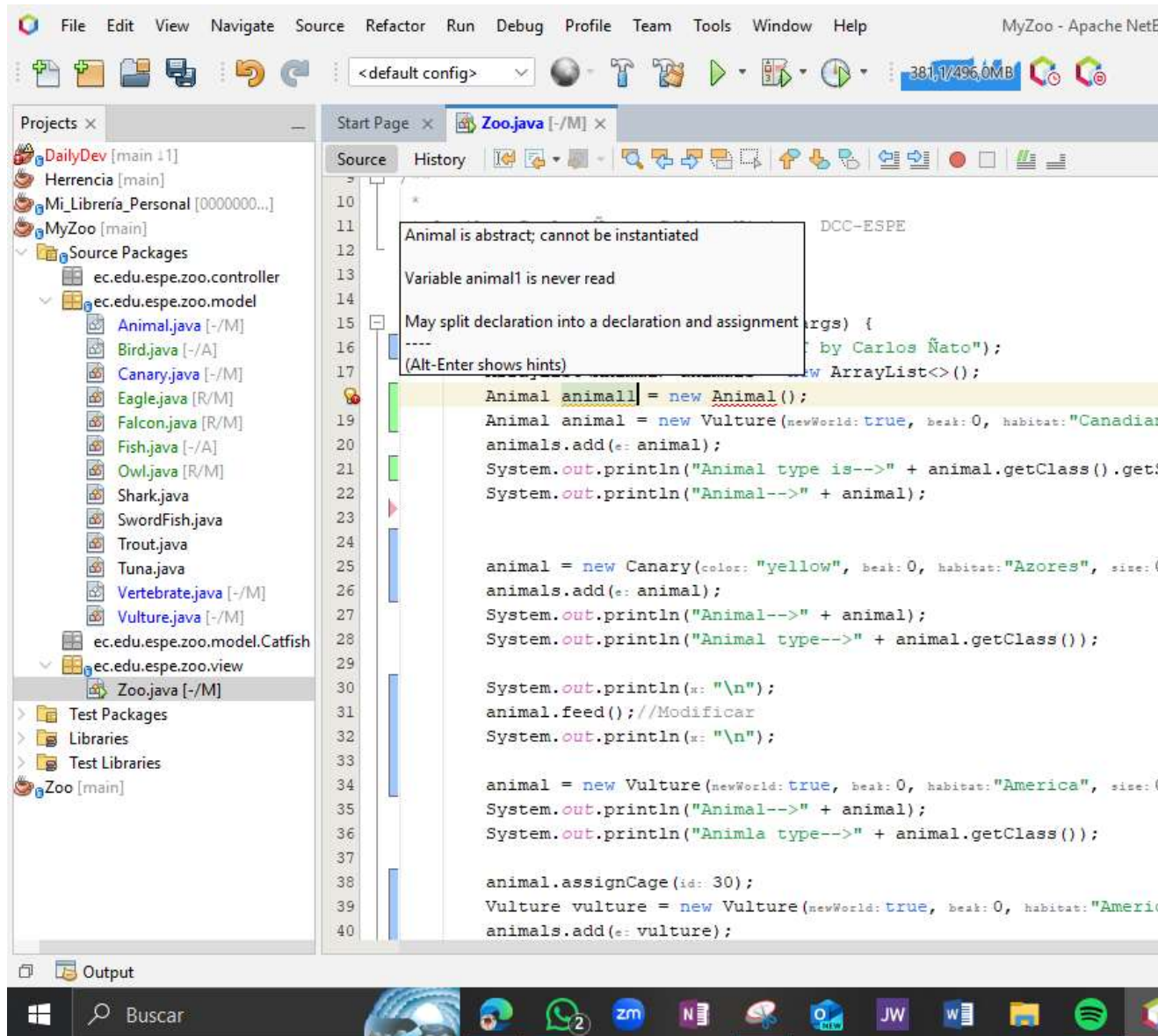
1 package ec.edu.espe.zoo.model;
2
3
4 import java.util.Date;
5
6
7 Animal is not abstract and does not override abstract method feed() in Animal
8 Create Test Class
9 ----
10 (Alt-Enter shows hints)
11
12 public class Animal {
13     private int id;
14     private String scientificName;
15     private Date bornDate;
16     private int cageId;
17
18     public Animal(int id, String scientificName, Date bornDate, int cageId) {
19         this.id = id;
20         this.scientificName = scientificName;
21         this.bornDate = bornDate;
22         this.cageId = cageId;
23     }
24
25     public abstract void feed();
26
27     public int computerAgeMonths() {
28         int age=3;
29         return age;
30     }
31 }

```

Output

Buscar





The image shows two IDE windows side-by-side. The left window, titled 'Canary.java', contains the following code:

```

import java.util.Date;

/**
 * Another Carlos Soto, The JavaS, 200-XXXX
 */
public class Canary extends Bird {

    private String color;

    public Canary(String color, int beak, String habitat, int
        super(beak, habitat, color, size, id, scientific
        this.color = color;

    @Override
    public void hunt() {
        System.out.println("canary is hunting");
    }

    @Override
    public void feed() {
        System.out.println("canary is eating worms");
    }

    public void hunt(int prey) {
        System.out.println("canary has hunted " + prey + "ti
    }

    public void sing() {
        System.out.println("canary is singing");
    }
}

```

The right window, titled 'Animal.java', contains the following code:

```

public Animal(int id, String scientificName, Date bornDate
    this.id = id;
    this.scientificName = scientificName;
    this.bornDate = bornDate;
    this.cageId = cageId;
}

public abstract void feed();

public int computerAgeMonths() {
    int age=3;
    return age;
}

public void assignCage(int id) {
    System.out.println("assigning cage number " + id);
    cageId = id;
}

@Override
public String toString() {
    return "\n-Animal: " + id + ", scientificName="
}

public int getId() {
    return id;
}

public void setId(int id) {
}

```

