Code:

Animal.java

```
public abstract class Animal {
   private String name;
   private int age;
   private String species;
    public Animal(String name, int age, int weight, String species) {
       this.age = age;
       this.weight = weight;
       this.species = species;
    public String getName() {
    public void setName(String name) {
    public int getWeight() {
```

Lion.java

Main.java

```
public class Main {
    it daniel *
    public static void main(String[] args) {

        Lion lion = new Lion(name: "Initial Name", age: 0, weight: 0, species: "Initial Species");

        lion.setName("Leo");
        lion.setAge(100000);
        lion.setWeight(300);
        lion.setSpecies("Barbary lion");

        System.out.println("Name: " + lion.getName());
        System.out.println("Age: " + lion.getWeight() + " kg");
        System.out.println("Weight: " + lion.getWeight() + " kg");
        System.out.println("Species: " + lion.getSpecies());

        lion.extinct();
    }
}
```

Result:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3
Name: Leo
Age: 100000
Weight: 300 kg
Species: Barbary lion
This species has gone extinct due to overhunting, habitat destruction, and a fatal respiratory ailment.

Process finished with exit code 0
```

Github repo link:

https://github.com/daniellim27/Daniel Exercise1 DSA TA 2024