

UNIVERSIDAD DE LAS FUERZAS ARMADAS – "ESPE"

CLASS NAME: OBJECT ORIENTED PROGRAMMING

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NRC: 14575

WORKSHOP #11

TOPIC: JSON DATA FILES

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DATE: 02/12/2023

```
package ec.edu.espe.dinosaursys.view;

import java.io.IOException;
import java.lang.reflect.Type;
import java.util.ArrayList;
import java.util.Scanner;

import com.google.gson.reflect.TypeToken;

import ec.edu.espe.dinosaursys.model.Dinosaur;
import ec.edu.espe.dinosaursys.utils.JsonHandler;

/**

* @author Andrés Romero

*/

public class DinosaurSystem {
    private static ArrayListOinosaur> allDinosaurs = new ArrayList<();
    private static final String SAVE_FILE_NAME = "dinosaurs.json";

public static void main(String[] args) {
    // Print all dinosaurs
    allDinosaurs = loadFromJson(SAVE_FILE_NAME);
    if (allDinosaurs:Esmpty()) {
        System.out.println("No dinosaurs found.");
    } else {
        System.out.println(dinosaur);
    }
    }

private static ArrayList<Dinosaur> loadFromJson(String fileName) {
        Type listType = new TypeToken<ArrayList<Dinosaur>>(){}.getType();
        ArrayList<Dinosaur> data = new ArrayList<Dinosaur>>(){}.getType();
        ArrayList<Dinosaur> data = new ArrayList<Dinosaur>
```

```
public class Dinosaur {
    private int id;
    private long deathYear;
    private String phylum;
    private String species;

    public Dinosaur(int id, long deathYear, String phylum, String species) {
        this.id = id;
        this.deathYear = deathYear;
        this.species = species;
}

public int getId() {
        return id;
}

public void setId(int id) {
        this.id = id;
        this.id = id;
}

public long getDeathYear() {
        return deathYear;
}

public void setId(int id) {
        this.id = id;
}

public long getDeathYear() {
        return deathYear;
}

public void setDeathYear(long deathYear) {
        return deathYear;
}

public String getPhylum() {
        return phylum;
}

public String getPhylum(String phylum) {
        this.phylum = phylum;
}

public String getSpecies() {
        return species;
}

public void setSpecies(String species) {
        this.species = species;
}

@Override
public String toString() {
        return "Dinosaur [id=" + id + ", deathYear=" + deathYear + ", phylum=" + phylum + ", species=" + species + "]";
}

public String toString() {
        return "Dinosaur [id=" + id + ", deathYear=" + deathYear + ", phylum=" + phylum + ", species=" + species + "]";
}

public String toString() {
        return "Dinosaur [id=" + id + ", deathYear=" + deathYear + ", phylum=" + phylum + ", species=" + species + "]";
}
```

```
kmd@kmdtu:~/Documents/GitHub/ESPE2311-00PSW14575/ws/romeroa/unit1/WS11DataFiles/Code$ cd /home/kmd/Documents/GitHub/ESPE2311-00PSW14575/ws/romeroa/unit1/WS11DataFiles/Code ; /usr/bin/env /usr/lib/jvm/java-11 -openjdk-amd64/bin/java @/tmp/cp ediz5ekv78s8wz1lejltllcmh.argfile ec.edu.espe.dinosaursys.view.Dinosaur System
All dinosaurs:
Dinosaur [id=1, deathYear=-2800000000, phylum=Chordata, species=Tyrannosaurus Rex]
Dinosaur [id=2, deathYear=-2500000000, phylum=Chordata, species=Triceratops]
Dinosaur [id=3, deathYear=-3000000000, phylum=Chordata, species=Stegosaurus]
Dinosaur [id=4, deathYear=-2500000000, phylum=Chordata, species=Velociraptor]
Dinosaur [id=5, deathYear=-2500000000, phylum=Chordata, species=Brachiosaurus]
```