

Universidad de las Fuerzas Armadas

**CLASS NAME :OBJECT ORIENTED
PROGRAMMING
LASCANO
NRC:14575
TOPIC:**

TEACHER: EDISON

WORKSHOP #:12

David Gustavo Cepeda Salguero

The screenshot displays the Apache NetBeans IDE interface. The top pane shows the source code for `DinosaurReader.java`. The code defines a `DinosaurReader` class with a `main` method and a `readAndPrintDinosaurs` method. The `main` method calls `readAndPrintDinosaurs` with the path `JSON_FILE`. The `readAndPrintDinosaurs` method uses `Gson` to read a JSON file and prints the details of each dinosaur.

```
20
21
22 public static void main(String[] args) {
23     DinosaurReader dinosaurReader = new DinosaurReader();
24     dinosaurReader.readAndPrintDinosaurs(filePaths.JSON_FILE);
25 }
26
27 class DinosaurReader {
28     private final Gson gson;
29
30     public DinosaurReader() {
31         this.gson = new GsonBuilder().setPrettyPrinting().create();
32     }
33
34     public void readAndPrintDinosaurs(String filePath) {
35         try (BufferedReader reader = new BufferedReader(new FileReader(filePath))) {
36             JSONArray dinosaursArray = gson.fromJson(reader, JSONArray.class);
37
38             for (JsonElement element : dinosaursArray) {
39                 try {
40                     JsonObject dinosaurObject = element.getAsJsonObject();
41                     System.out.println("Dinosaur:");
42                     System.out.println(gson.toJson(dinosaurObject));
43                 } catch (JsonSyntaxException e) {
44                     System.out.println("Error finding Dinosaur: " + e.getMessage());
45                 }
46             }
47         } catch (IOException e) {
48             System.out.println("Error reading JSON file. Details: " + e.getMessage());
49         }
50     }
51 }
```

The bottom pane shows the output of the program, which prints the details of three dinosaurs:

```
run:
Dinosaur:
{
  "dinosaurId": 1,
  "dinosaurName": "Tyrannosaurus rex",
  "dinosaurType": "Carnivorous"
}
Dinosaur:
{
  "dinosaurId": 2,
  "dinosaurName": "Triceratops",
  "dinosaurType": "Herbivore"
}
Dinosaur:
{
  "dinosaurId": 3,
  "dinosaurName": "Stegosaurus",
  "dinosaurType": "Herbivore"
}
BUILD SUCCESSFUL (total time: 0 seconds)
```

