WORKSHOP #16

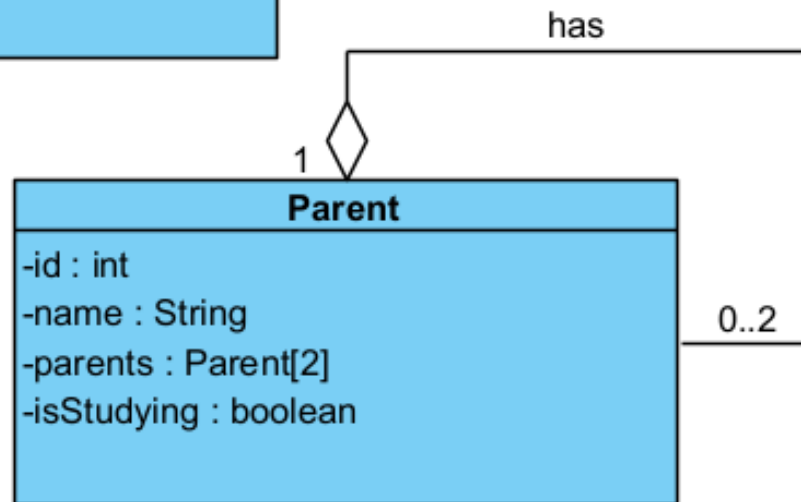**NRC**: 14575

CLASS NAME: OBJECT ORIENTED PROGRAMMING

INSTRUCTOR: EDISON LASCANO

TOPIC: TUTORING WORKSHOP

NAME: RONY CEDEÑO

DATE: 09/12/2023

Parent Diagram
Author: Rony Cedeño

```
Parent
-id : int
-name : String
-parents : Parent[2]
-isStudying : boolean
```

has
1
0..2

```java
package ec.edu.espe.parent.view;

import com.google.gson.Gson;
import ec.edu.espe.parent.model.Parent;

//@author Rony Cedeño, INTERBYTE, DCCOESPE-14575
public class Main {

    public static void main(String[] args) {

        String jsonString = "{ \"id\" : 1, \"name\" : \"Edison\", \"parents\" : [{ \"id\" : 1, \"name\" : \"\" }, { \"id\" : 2, \"name\" : \"Isabel\" }], \"isStudying\": false }";
        Gson gson = new Gson();

        Parent parent = gson.fromJson(json: jsonString, classOfT: Parent.class);
        System.out.println("Parent : " + parent.toString());
    }
}
```

```java
package ec.edu.espe.parent.model;

import java.util.List;

/*
@author Rony Cedeño,INTERBYTE,DCCO ESPE_14575
*/
public class Parent {

    private int id;
    private String name;
    private boolean isStudying;
    private List<Parent> parents;

    @Override
    public String toString() {
        String string = "Parent{" + "id=" + getId() + ", name= " + getName();
        if (getParents() != null) {
            string = string + ", parents=[";
            for (Parent x : getParents()) {
                string = string + x.toString();
            }
            string = string + "]";
        }
        string = string + ", isStudying=" + isIsStudying() + "}";
        return string;
    }

    public Parent(int id, String name, boolean isStudying, List<Parent> parents) {
        this.id = id;
        this.name = name;
        this.isStudying = isStudying;
        this.parents = parents;
    }

    /**
     * @return the id
     */
    public int getId() {
        return id;
    }

    /**
     * @param id the id to set
     */
    public void setId(int id) {
        this.id = id;
    }

    /**
     * @return the name
     */
    public String getName() {
        return name;
    }
```

```
run:
Parent : Parent{id=1, name= Edison, parents=[Parent{id=1, name= , isStudying=false}Parent{id=2, name= Isabel, isStudying=false}], isStudying=false}
BUILD SUCCESSFUL (total time: 0 seconds)
```