UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE

CLASS NAME: OBJECT ORIENTED PROGRAMMING

TEACHER: EDISON LASCANO

NRC:14575

WORKSHOP # 21

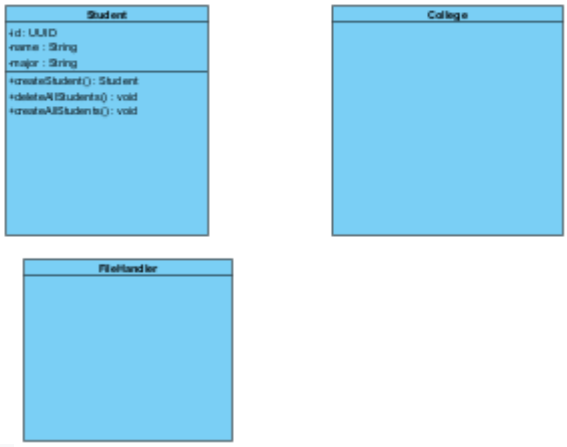
TOPIC: Exam Inspection

NAME: CARLOS ÑATO

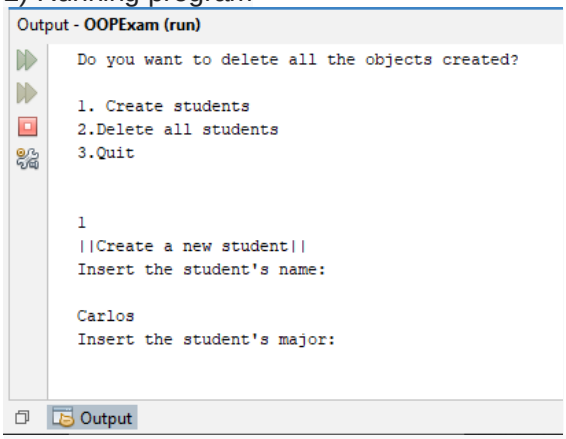
Inspector: Carlos Ñato

1) class modeling 7/10 pts.
   Q33(main) 2/2
   Vehicle class: 1/1, attributes: 1/1, method: 1/1
   FileManager 2/2
   dependencies 0/3
2) Running program 10/10 pts.
   Run the program e input data, and see if the program has a menu
   data input 5/5
   menu option 5/5
3) Printing/counting/deleting objects from JSON File 10/10 pts.
   print, count, delete 10/10
4) Saving JSON data 10/10pts.
   screenshot of Json File: data are added 10/10
5) Code Quality 10/10 pts.
TOTAL: .....47/50 pts.

Evidence
1) class modeling 8:02



2) Running program

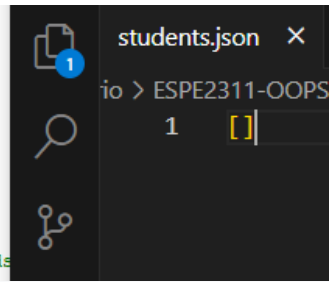


3) Printing/counting/deleting objects from JSON File

```
Do you want to delete all the objects created?

1. Create students
2.Delete all students
3.Quit

2
students deleted
BUILD SUCCESSFUL (total time: 15 minutes 11 seconds
```



4) Saving JSON data

5) Code Quality

```
public class FileHandler {

    public static <T> ArrayList<T> readFile(String fileAdress, Type type) {

        File theFile = new File(pathname: fileAdress);
        ArrayList<T> objectList = new ArrayList<>();

        if (theFile.exists()) {

            try (FileReader fileReader = new FileReader(fileName: fileAdress)) {
                Gson gson = new GsonBuilder().setPrettyPrinting().create();

                objectList = gson.fromJson(json: fileReader, typeOfT: type);
            } catch (FileNotFoundException e) {
                System.err.println(x: "Error in creating the File Reader Object");
            } catch (IOException e) {
                throw new RuntimeException(cause: e);
            }

        } else {
            writeFile(fileAdress, objectList);
        }
        return objectList;
    }
```