**FP Test**

Create an application for the management of the grades of this test a menu-driven console based user interface. Each student has a ***code*** (e.g. miie0509), a ***name***, a ***hometown*** (e.g. Alba Iulia) and a ***grade*** (e.g. London). The application will allow to:

1. Add a student. The user will enter the code, the name, the hometown and grade. The application will add the student **[2p]**. In case one of the fields *name, hometown* has a length less than 3 characters, or if the code is formed of 4 letters followed by 4 digits, the application will provide an error message. In this case, the student will not be added **[1p]**.
2. Modify the grade of a given student. The user will enter the code and the new grade and the application will update the student with the given code **[1p]**.
3. The students of a given group need to be penalized because they did not prepare the previous labs well and therefore their grades need to be reduced by 10%.The group number is represented by the first 2 digits in the code. Create a function that reduces all the grades of the students in a given group by 10%.
4. Show all students with a given hometown **[2p]**, sorted decreasing by their grade **[1p]**.

Default [**1p**]

**Non-functional requirements**

* Use modular programming, with at least an operations module and a UI one.
* Provide specification and tests for the operations module.

**! Observations**

* Features using functions without tests **and** specification receive 50% the amount of points.
* Do not implement features that are not required (e.g. unrequired validations)
* Have at least 10 flights hard coded at application start. Use descriptive names.