OOP WS2020/21

EXERCISE 6

1. Extends the **Classroom** class from exercise 5 with three new methods:
    - isParticipating(Student) will return the status whether the student in the argument is participating in the class or not.
    - removeStudent(Student) will remove the student in the argument from the participant list
    - removeAllParticipants() will clear the student list

    Additionally, the addStudent method must be able to deal with duplicates. If the same student is added multiple times only one entry will be recorded on the participant list.

2. Extends the **BucketOfObjects** class from exercise 5 with one new method namely removeObject(GeometricObject) which will remove the object in the argument from the bucket. The bucket can store multiple items in its list.

(Hints: You might use Collection Framework instead of array.)