

Classes



Objectives

Using Python to solve complex problems

- Implement complex programs using Python
- Solve problems using abstract data types
- Implement classes and methods
- Develop unit tests
- Use design patterns



Requirements

Continue the development of the application from **Seminar 6**.

- i. Make the following changes at the level of class *Student*:
 - The grade becomes a list of grades
 - Add attribute '*group*'
- ii. Make the following changes at the level of class *StudentRepository*:
 1. Get the student with the maximum grade.
 2. Get the student with the maximum average grade.
 3. Get the average of the maximum grades of students from the same group.
 4. Get the minimum grade of any student from a group.
 5. Update the grades of student given the id.
 6. Given a student name, return the id(s).
 7. Update the group of a student given the id.
 8. Delete all grades of a given student.
 9. Delete all students from a given group.
 10. Delete all students that have no grades.