



SEMINAR III – PROCEDURAL PROGRAMMING (II). TEST DRIVEN DEVELOPMENT

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WHAT YOU SHOULD KNOW AFTER ATTENDING

- How to identify required functions and their specifications
- How to continue the implementation on an already existing codebase (source code of seminar 2)
- How to add new commands to a command-driven user interface
- How to write automated test functions
- How to apply Test Driven Development

PROBLEM STATEMENT

Write an application that manages the students of a faculty. Each student has a unique id, a name and a grade. The application should allow:

- Adding students
- Deleting students
- **Showing students whose grades are \geq or \leq a given value, in descending order of grade**
- **Showing students whose name is lexicographically between two given bounds, in descending order of grade**
- Displaying the user the list of available commands

Steps to approach the problem:

- Identify the features
- Clarify the tasks
- Create an iteration plan
- Identify the required functions and write their specifications
- **Apply the steps for Test Driven Development**

SOURCE CODE

The source code for this seminar is the Seminar.03.zip archive.