

# **JAVA PROGRAMMING LAB (SWE2023\_41)**

## **FALL 2025**

INSTRUCTOR: Prof. TAMER ABUHMED

### **Final Project**

**Project Type: Individual Project [only one student]**

**Project Topic: Free topic!**

**Ex: Game, chatting program, library management, point of sale, etc.**

- Choose what you can do your best

**Program Requirements:**

- GUI [Swing]
- Threads
- Inheritance
- Polymorphism
- File I/O
- Other topics that we have covered so far.

**Points you should consider when you are implementing your project:**

- Your project should be complex enough
- Your project should have a good User Interface (GUI).
- Well-formatted OOP design is far better than implementing difficult things.
- Your software is reliable and cannot crash easily, where you will check all users' possible input and generate messages for unsuitable input.

- Please follow Coding Convention (clean coding):
  - File organization
  - Indentation
  - Comments
  - Declarations
  - Naming

## Detailed factors for project evaluation:

### Total Score: 100 points

- Report - **10** points
- Demonstration (**video with voice!**) - **10** points
- Source Code - **80** points
  - **The number of Program Requirements** - **40** points
    - ◆ The more concepts you use from what you learned in class, the higher the score you can receive.
  - **\*Complexity of the project** - **15** points
  - User Interface (UI) - **15** points
  - Coding Convention - **10** points

Deadline for optional proposal: **Nov 30, 2025, 23:59:59**

Deadline for final project submission: **Dec 21, 2025, 23:59:59**

**\* Complexity of the project** - Check the attached file for project examples from last semester's final projects ("Final Project Examples.pdf")

### Last year's projects' statistics to let you know about the size of the project:

- The average number of defined classes: **9~11 classes**
- Average Source code length: **800 ~ 900 lines / 1 person**

**Note: To get a full score, you must follow last year's statistics.**

**Project Submission:** Submit the following files:

- **Source code (all .java files)**
- **Executable jar file (important)**
- **Project Report**
- **Video** (minimum 4 mins).
  - In the video, you should run the code and explain all the steps

**All the files and the video should be submitted as a zip file**

**Name of zip file:** {Student ID}\_{Student name}\_final\_project.zip

**Example:** 2025123456\_Seongjae\_Mun\_final\_project.zip

**NOTE: Plagiarism is strictly prohibited. If there is any plagiarism found in the code, you will be given an "F" for the final project evaluation.**

**If you have any questions about the final project, you can send an email to the following email:**

- Jeong-won Kim(TA): dalpengx3@g.skku.edu
- Seongjae Moon (TA): sungjae.moon@skku.edu

**Remember: Any late submission will not be accepted after the deadline.**