SSVV 2024-2025
Take-Home-B Exam Subject
400 XP (350XP implementation&testing&docs +50XP survey questions about the tasks)
Maximum 5 students per team.

Take Home B - assignment
You are given a first version of a small Java program - **Version A** (the original implementation). Your task is to simulate a **regression testing process** and evaluate how a change in the software affects the existing behavior.

Task 1) **Design test cases, execute them (and find bugs)**
Design and implement test cases
- Create a test suite for Version A (before the change) using unit tests (JUnit) - the tests may or may not identify bugs.
- Record what test design techniques you used (black-box, white-box)
Find the bug and fix it
- Analyze the given program, find bugs, and fix them (create Version B of the code).
- Reflect on what parts of the behavior might be affected.

Task 2) **Run the test cases on both Versions (A and B)**
- Execute your test suite on both Version A and Version B.
- Evaluate whether the change introduces bugs or breaks existing functionality.

Task 3) **Perform regression test selection**
- Decide which tests from your original suite need to be re-executed.
- Justify your **regression test selection strategy**:
    - Why did you select those specific tests?