

## Phase #4 - Front End Unit Testing

Due Tuesday, April 3, 2022

### Overview

In this phase, you will practice white box testing of the Front End you programmed in Phase #2 and tested in Phase #3.

For **one** method (with at least one decision or loop) in your Front End you are to create a set of white box unit tests that provide statement coverage. Also, for **one** method (with at least two decisions and one loop) you should create a set of unit tests that provide decision and loop coverage.

For each of the two methods,

- (i) analyze the code according to the system of the test method required and create a table of cases to be tested
- (ii) create a set of unit tests (JUnit classes) to cover each of the test cases you have identified in the table
- (iii) run all the test cases on your Front End
- (iv) make a table of the failures uncovered by your tests (if any)

### What to Hand In

In this assignment, you will hand in. Each report should include:

- (1) A set of JUnit test cases for each of the two method (identify which method uses which kind of coverage).
- (2) A test report containing the results of the test runs of your Front End for each test, including any failures found.

### Marking Scheme

Creation of JUnit Test Cases (statement coverage)	3 marks
Creation of JUnit Test Cases (decision and loop coverage)	4 marks
Test Report	3 marks
Table of results     (2)	
Identification of failures, if any (1)	
<b>Total</b>	<b>10 marks</b>