Testing, testing, testing with TDD

OBJECTIVES

- Writing tests that fail (RED)
- Writing code that passes those tests (GREEN)
- Writing cleaner code that does not break those tests (REFACTOR)
- Continue practice of Git/GitHub

USING SEG3103_PLAYGROUND

- Create /lab04 directory
 - Extract tic.zip and fizzbuzz.zip
 - Make sure you can
 - compile code
 - Run tests

Now Ignore those projects :-)

- Create a new project in Java, Elixir, or Python
 - Pick a project to "TDD" on. If you pick tic-tac-toe or fizzbuzz you CANNOT use Elixir
- Practice test-driven development
 - Write a small desire (failing test)
 - Have it fail (commit that change)
 - Have it pass (commit that change)
 - Make it better if relevant (and commit that change)

TEST DRIVE FOR AN HOUR

- Once you have a your first failing test start the clock
- Red Green Refactor for an hour
 - If you encounter a technical challenge stop the clock
 - If you get stumped with a Java (or JUnit issue) then stop the clock
- Every progress forward should be captured as a commit (this includes adding a new RED failing test)

SUBMISSION

- All work should written under
 - * seg3103_playground/lab04
- Git commit message should include the results of the JUnit tests
- Create **README.md** to summarize your work
 - Identify at least 5 commit groups (per person) to highlight examples of
 - ► A failing test
 - A passing test
 - Refactored code (where the test still pass)
 - To clarify, if working in a team then you need 10 commit groups in total
 - ⁵ 5 per teammate
 - Clearly identify otherwise you will be penalized
- Share your repository with the teacher and TA (s)
 - Submissions to BrightSpace should clearly reference your GitHub repository