

# Verification Lab 1

JUnit and Mockito

# JAVA Assertions

- Use JAVA Assertions to test **invariants**
- Assertions should be used to check something that **should never happen**
- An **exception** should be used to check something that **might happen**.
- An **assertion** would **stop** the program from running, but an **exception** would let the program **continue running**.



# JUnit

- Document the test cases
- Create JUnit test cases for most important classes
- Test for best case
- Test identified boundary cases
- <http://junit.org>

The JUnit logo features the word "JUnit" in a serif font. The "J" and "U" are in a dark red color, while the "nit" is in a green color. The letters are bold and have a classic, slightly ornate design.

# Mockito



- A **unit test** should test a **single code-path** through a **single method**. When the execution of a method passes outside of that method, you have a **dependency**.
- A mock replaces that dependency.
- <http://site.mockito.org>