



THE UNIVERSITY  
OF THE  
WEST INDIES

# OBJECT ORIENTED PROGRAMMING 1

## Lab 3 Feedback Report

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### Lab 3 Part 1 tests:

=== Test: Fields and Modifiers ===

- ✓ 'plateID' field is declared correctly (private String).
- ✓ 'plateNumberCounter' field is declared correctly (private static int).
- ✓ 'vehicleClassification' field is declared correctly (private int).

=== Test: 3-Arg Constructor ===

- ✓ 3-arg constructor correctly computed tankCapacity (24).
- ✓ 3-arg constructor sets correct fuelType ('gasoline').

=== Test: 4-Arg Constructor ===

- ✓ 4-arg constructor correctly computed tankCapacity (210).
- ✓ 4-arg constructor sets correct vehicleClassification (1).

=== Test: toString Method ===

- ✓ toString() appears to include correct capacity, fuel type, plateID, classification.

=== Test: Vehicle Classification ===

- ✓ classification=1 => Motorcycle as expected.
- ✗ classification=4 => expected 'Heavy Motor Vehicle', got: Heavy motor vehicle
- ✓ classification=2 => defaulted to 3 as expected.

=== Test: equals(Object) ===

- ✓ A vehicle equals itself.
- ✓ Two distinct vehicles have different plateIDs => equals returned false.

### Lab 3 Part 2 tests:

=== Test: Fields and Modifiers ===

- ✓ 'name' field is correctly declared (private String).
- ✓ 'vehicle1' field is correctly declared (private Vehicle).
- ✓ 'vehicle2' field is correctly declared (private Vehicle).

=== Test: Constructor ===

- ✓ Constructor correctly assigns the name.
- ✓ Constructor correctly initializes vehicle1 and vehicle2 to null.

=== Test: getName() ===

- ✓ getName() returns correct name.

=== Test: addVehicle() ===

✓ addVehicle() correctly assigns vehicles.

=== Test: canDrive() ===

✗ Error: Could not test canDrive(). VehicleDriver.canDrive(Vehicle)

### Lab 3 Part 3 tests:

=== Test: Methods in StationSimulation ===

✓ getRandomNumber(int, int) method exists and returns int.

✓ main(String[] args) method exists.

=== Test: Random Number Generation ===

✓ getRandomNumber(int, int) correctly generates numbers within range.

=== Test: Simulation Behavior ===

✓ Driver 'Lou' correctly assigned 2 vehicles.

✓ Driver 'Sue' correctly assigned 2 vehicles.

✓ Driver 'Drew' correctly assigned 2 vehicles.

✓ Driver 'Koo' correctly assigned 2 vehicles.

✓ Driver 'Murphy' correctly assigned 2 vehicles.