



THE UNIVERSITY  
OF THE  
WEST INDIES

# OBJECT ORIENTED PROGRAMMING 1

## Lab 2 Feedback Report

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### Lab 2 Part 1 tests:

Running StationSimulation Main...

✓ StationSimulation ran successfully.

Testing Vehicle 1 (Gasoline)...

✓ Vehicle 1 created successfully.

Testing Vehicle 2 (Diesel)...

✓ Vehicle 2 created successfully.

Servicing gasoline vehicle...

✓ Fuel levels updated successfully for gasoline vehicle.

Servicing diesel vehicle...

✗ Diesel vehicle incorrectly affected fuel levels.

### Lab 2 Part 2 tests:

✓ Class Vehicle exists.

✓ Constructor for Vehicle(int, int, int) exists.

✓ Method toString() exists in Vehicle class.

✓ Constructor correctly initializes a vehicle with dimensions (10, 10, 10).

✓ Constructor correctly initializes a vehicle with dimensions (15, 15, 15).

✗ toString() method failed for vehicle with dimensions (10, 10, 10).

Expected: VEHICLE TANK CAPACITY: 1000 FUEL TYPE: gasoline

Got: gasoline : 1000

✗ toString() method failed for vehicle with dimensions (15, 15, 15).

Expected: VEHICLE TANK CAPACITY: 3375 FUEL TYPE: diesel

Got: diesel : 3375

### Lab 2 Part 3 tests:

Test: Default Constructor

✓ Default constructor initializes all attributes correctly.

Test: toString Method

✗ The toString method output is incorrect.

Expected: FUEL: gasoline VOL: 75000.0L PRICE PER L: \$2.0 SALES: \$0.0

Got: gasoline : 75000.0 : 2.00 : 0.00

Test: Private sellFuel Method

✖ sellFuel method did not update fuelVolume or fuelSales correctly.

Expected remaining fuel: 70000.0

Got: 70000.0

Expected sales: \$10000.0

Got: \$-1.0

Test: canDispenseFuelType Method

✔ canDispenseFuelType method works correctly.

Test: dispense Method

✖ dispense method did not update fuelVolume correctly.

Expected remaining fuel: 70000.0

Got: 65000.0