

## CSE 5321 Homework 4.2 Summer 2019

1)

Test Case Number	Inputs	Expected Outputs					Basis Path
	fuel_level	redLight	yellowLight	greenLight	buzzer	chime	
1	100.0	FALSE	FALSE	FALSE	FALSE	TRUE	13-14-30
2	75.1	FALSE	FALSE	FALSE	FALSE	TRUE	13-16-17-30
3	50.0	FALSE	FALSE	TRUE	FALSE	TRUE	13-16-19-20-30
4	25.1	FALSE	TRUE	TRUE	FALSE	TRUE	13-16-19-22-23-30
5	0.0	TRUE	TRUE	TRUE	TRUE	FALSE	13-16-19-22-25-26-30
6	0.1	TRUE	TRUE	TRUE	FALSE	TRUE	13-16-19-22-25-28-30
7	99.9	FALSE	FALSE	FALSE	FALSE	TRUE	-
8	75.0	FALSE	FALSE	TRUE	FALSE	TRUE	-
9	49.9	FALSE	TRUE	TRUE	FALSE	TRUE	-
10	25.0	TRUE	TRUE	TRUE	FALSE	TRUE	-
11	200.0	FALSE	FALSE	FALSE	FALSE	TRUE	-

2)

The screenshot shows the Eclipse IDE with the following components:

- Package Explorer:** Shows the project structure with 'Problem2ClassTest' selected. It indicates 'Finished after 0.033 seconds' and 'Runs: 11/11', 'Errors: 0', 'Failures: 0'.
- JUnit Test Results:** A list of test cases [0] through [10] with their execution times (e.g., [0] (0.001 s), [1] (0.000 s), etc.).
- Problem2Class.java:** The source code for the class, which implements the logic for setting lights and sounds based on fuel level. The code includes arrays for red, yellow, green, buzzer, and chime states, and a method to set these states based on the fuel level.
- Coverage:** A table showing the coverage of the code. The table has columns for 'Element', 'Coverage', 'Covered Instructions', 'Missed Instructions', and 'Total Instructions'. The data row shows 'microwaveClassTestParameterized (26-Jun-2019 4:17:22 AM)' with 100.0% coverage, 648 covered instructions, 0 missed instructions, and a total of 648 instructions.