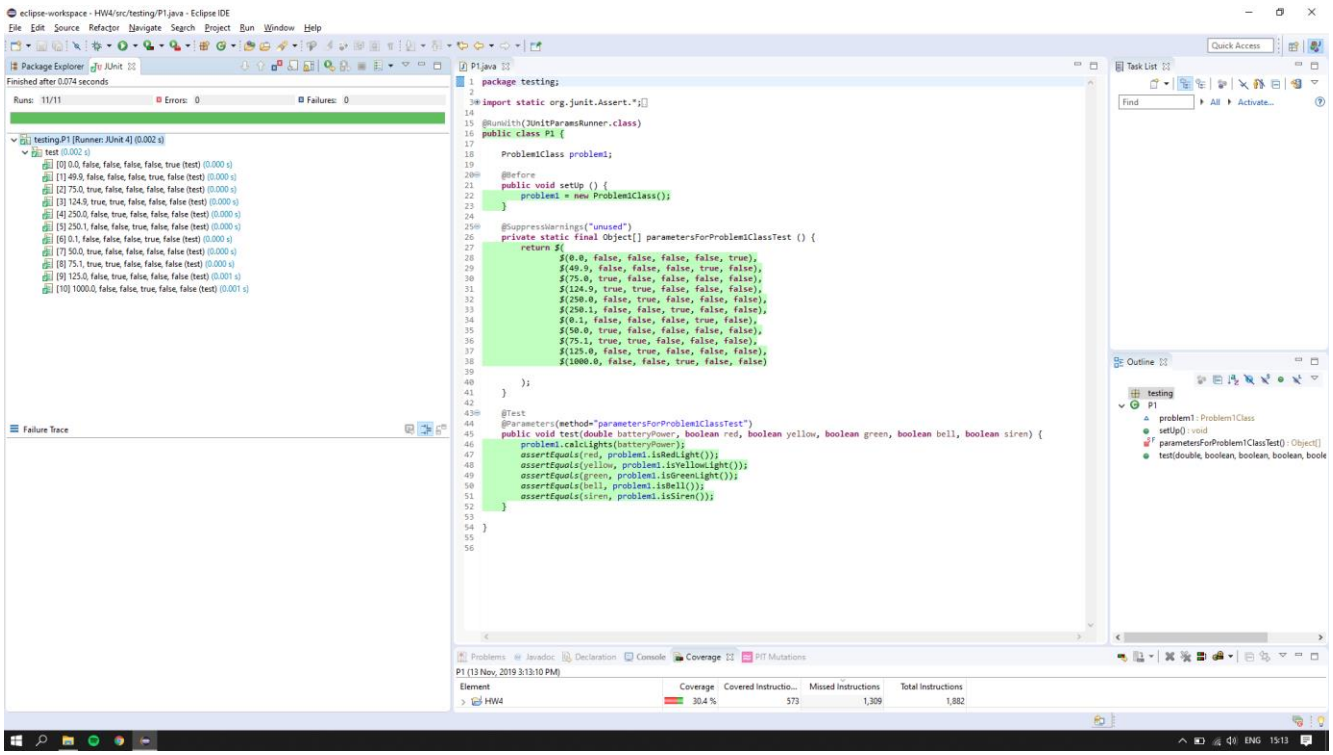
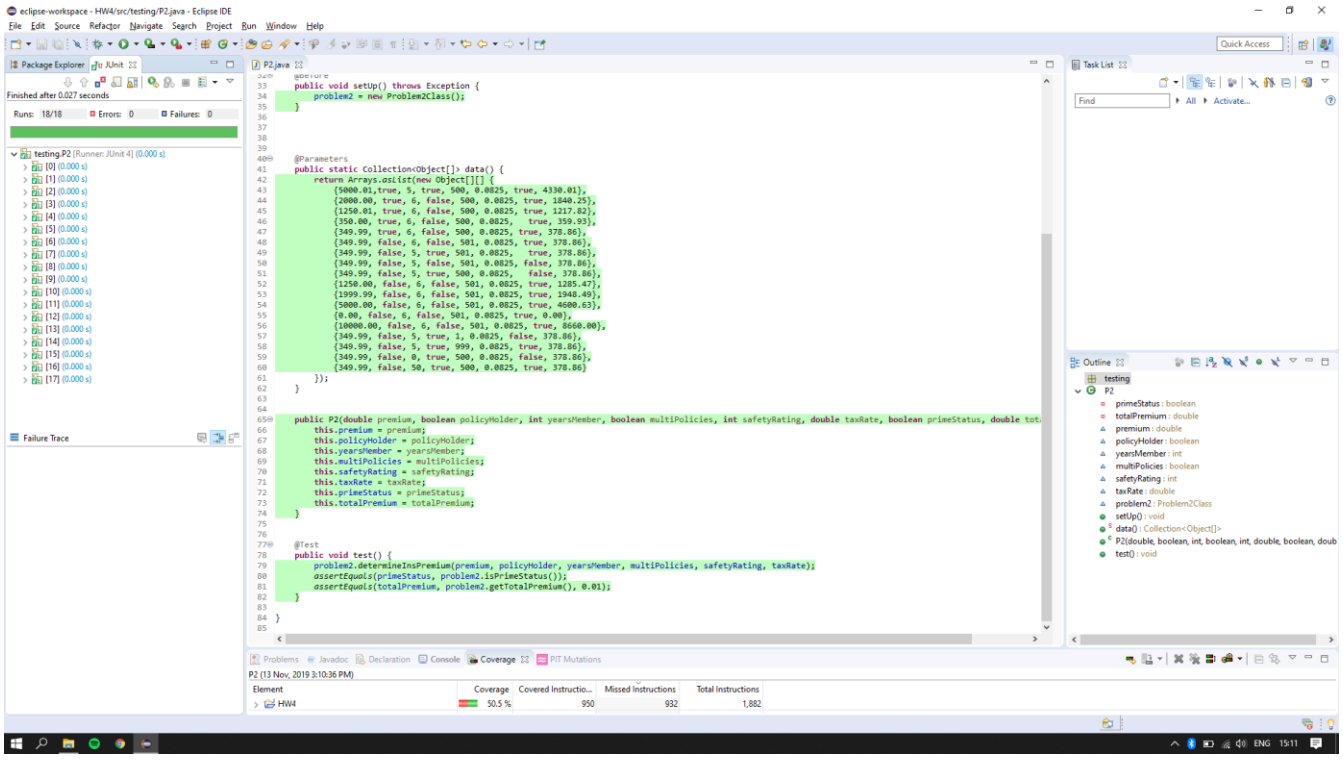
1)

Test Case Number	Inputs batteryPower (watts)	Expected Outputs red	yellow	green	bell	siren	Basis Path
1	0.0	FALSE	FALSE	FALSE	FALSE	TRUE	15-16-32
2	49.9	FALSE	FALSE	FALSE	TRUE	FALSE	15-18-19-32
3	75.0	TRUE	FALSE	FALSE	FALSE	FALSE	15-18-21-22-32
4	124.9	TRUE	TRUE	FALSE	FALSE	FALSE	15-18-21-24-25-32
5	250.0	FALSE	TRUE	FALSE	FALSE	FALSE	15-18-21-24-27-28-32
6	250.1	FALSE	FALSE	TRUE	FALSE	FALSE	15-18-21-24-27-30-32
7	0.1	FALSE	FALSE	FALSE	TRUE	FALSE	-
8	50.0	TRUE	FALSE	FALSE	FALSE	FALSE	-
9	75.1	TRUE	TRUE	FALSE	FALSE	FALSE	-
10	125.0	FALSE	TRUE	FALSE	FALSE	FALSE	-
11	1,000.0	FALSE	FALSE	TRUE	FALSE	FALSE	-



2)

MCDC test case	policyHolder	yearsMember	multiPolicies	safetyRating	test case number in table
FFFT	FALSE	5	FALSE	501	8
FFTF	FALSE	5	TRUE	500	9
FFTT	FALSE	5	TRUE	501	7
TFTF	TRUE	5	TRUE	500	1
FTFT	FALSE	6	FALSE	501	6

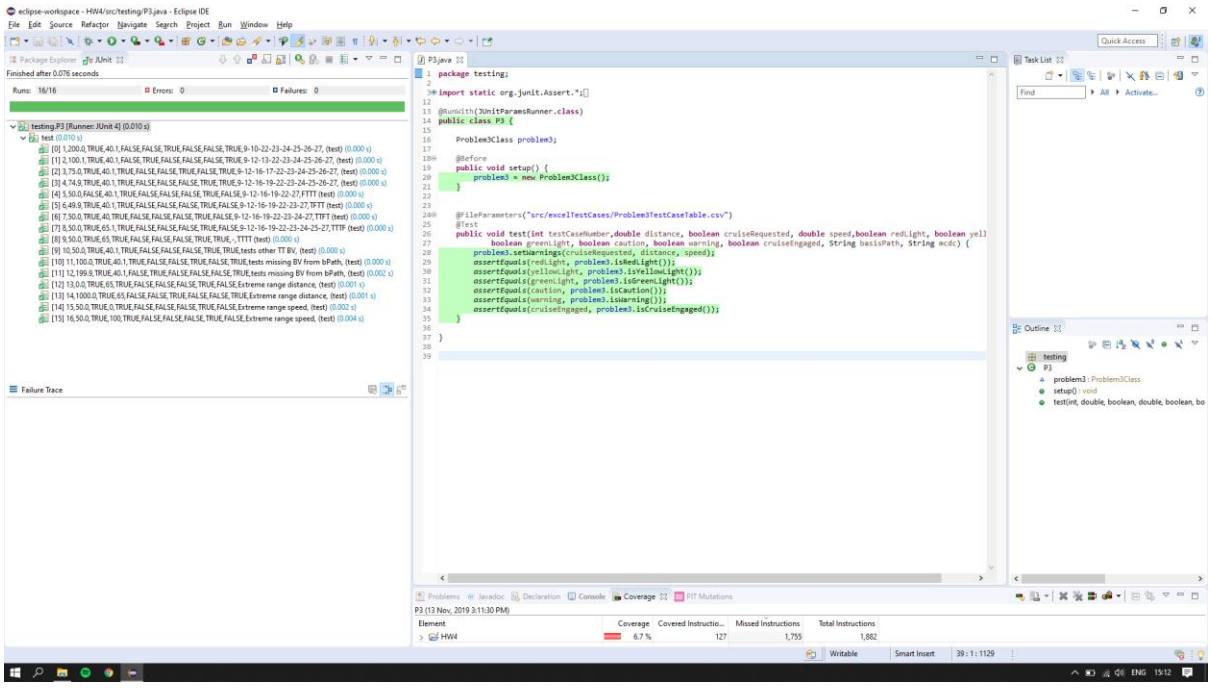


3)

Test Case	Inputs			Expected Outputs							
Number	distance (ft.)	cruiseRequested	speed (mph)	redLight	yellowLight	greenLight	caution	warning	cruiseEngaged	Basis Path	MCDC stmt 22-26
1	200.0	TRUE	40.1	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	9-10-22-23-24-25-26-27	
2	100.1	TRUE	40.1	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	9-12-13-22-23-24-25-26-27	
3	75.0	TRUE	40.1	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	9-12-16-17-22-23-24-25-26-27	
4	74.9	TRUE	40.1	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	9-12-16-19-22-23-24-25-26-27	
5	50.0	FALSE	40.1	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	9-12-16-19-22-27	FTTT
6	49.9	TRUE	40.1	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	9-12-16-19-22-23-27	TFTT
7	50.0	TRUE	40	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	9-12-16-19-22-23-24-27	TTFT
8	50.0	TRUE	65.1	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	9-12-16-19-22-23-24-25-27	TTTF
9	50.0	TRUE	65	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	-	TTTT
10	50.0	TRUE	40.1	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	tests other TT BV	
11	100.0	TRUE	40.1	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	tests missing BV from bPath	
12	199.9	TRUE	40.1	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	tests missing BV from bPath	
13	0.0	TRUE	65	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	Extreme range distance	
14	1,000.0	TRUE	65	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	Extreme range distance	
15	50.0	TRUE	0	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	Extreme range speed	
16	50.0	TRUE	100	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	Extreme range speed	

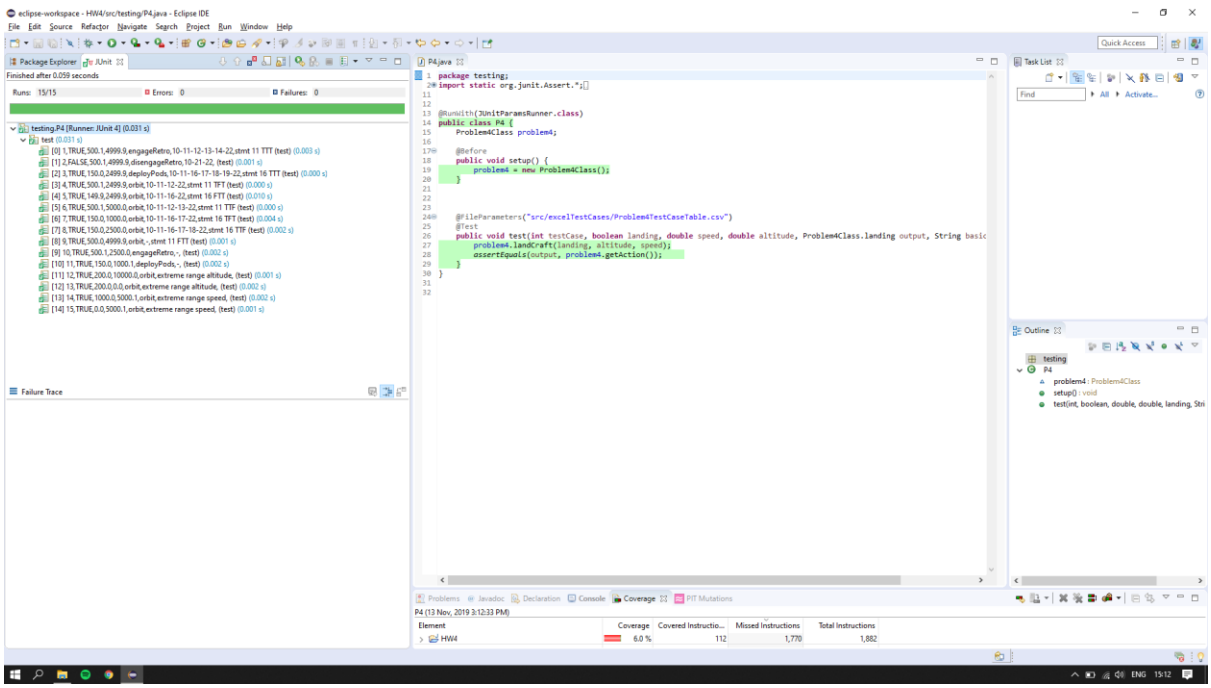
Test cases 9-16 may appear in any order

- indicates a don't care where ANY value can be used



4)

Test Case	Inputs			Exp Out		
Number	landin	speed (mp	altitude (f	return	Basis Path	MCDC
1	TRUE	500.1	4,999.9	engageRetro	10-11-12-13-14-22	stmt 11 TTT
2	FALSE	500.1	4,999.9	disengageRetro	10-21-22	
3	TRUE	150.0	2,499.9	deployPods	10-11-16-17-18-19-22	stmt 16 TTT
4	TRUE	500.1	2,499.9	orbit	10-11-12-22	stmt 11 TFT
5	TRUE	149.9	2,499.9	orbit	10-11-16-22	stmt 16 FTT
6	TRUE	500.1	5,000.0	orbit	10-11-12-13-22	stmt 11 TTF
7	TRUE	150.0	1,000.0	orbit	10-11-16-17-22	stmt 16 TFT
8	TRUE	150.0	2,500.0	orbit	10-11-16-17-18-22	stmt 16 TTF
9	TRUE	500.0	4,999.9	orbit	-	stmt 11 FTT
10	TRUE	500.1	2,500.0	engageRetro	-	
11	TRUE	150.0	1,000.1	deployPods	-	
12	TRUE	200.0	10,000.0	orbit	extreme range altitude	
13	TRUE	200.0	0.0	orbit	extreme range altitude	
14	TRUE	1,000.0	5,000.1	orbit	extreme range speed	
15	TRUE	0.0	5,000.1	orbit	extreme range speed	
	- indicates a don't care where **ANY** value can be used					
Test cases 9-15 can be in any order						



5)

Test Case Number	Inputs x	Exp Out y	Basis Path Tested
1	-4.01	0.00	7-8-20
2	-2.00	2.00	7-10-11-20
3	1.99	1.96	7-10-13-14-20
4	3.99	0.01	7-10-13-16-17-20
5	4.00	0.00	7-10-13-16-19-20
6	-6.00	0.00	-
7	-4.00	0.00	-
8	-1.99	1.96	-
9	2.00	2.00	-
10	8.00	0.00	-
11	-3.00	1.00	-
12	3.00	1.00	-
13	0.00	-2.00	-
14	1.00	-1.00	-
alternative x=-1.00 and y=-1.00			
Test Cases 6-14 can be in any order