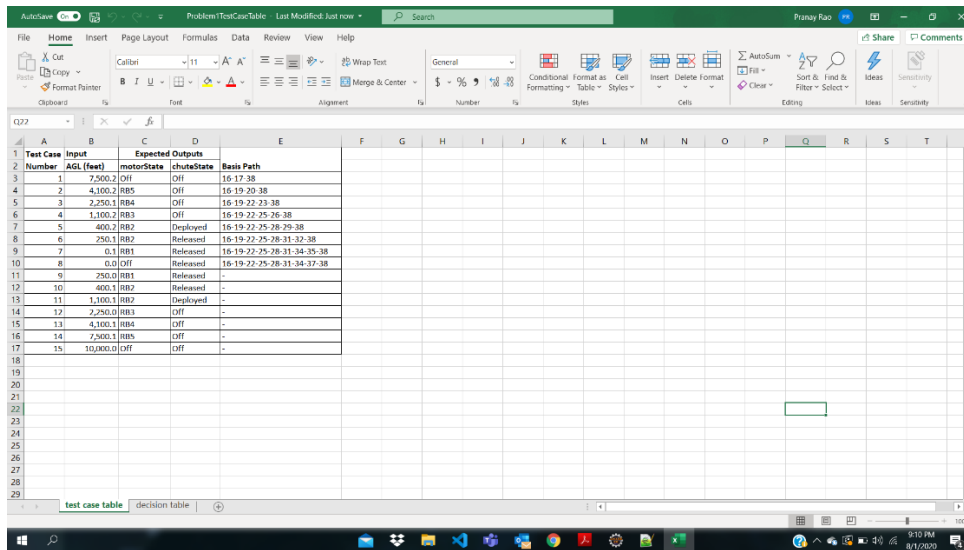


Name: Shaik Imtiyaz Aaresh

Id: 1001832768

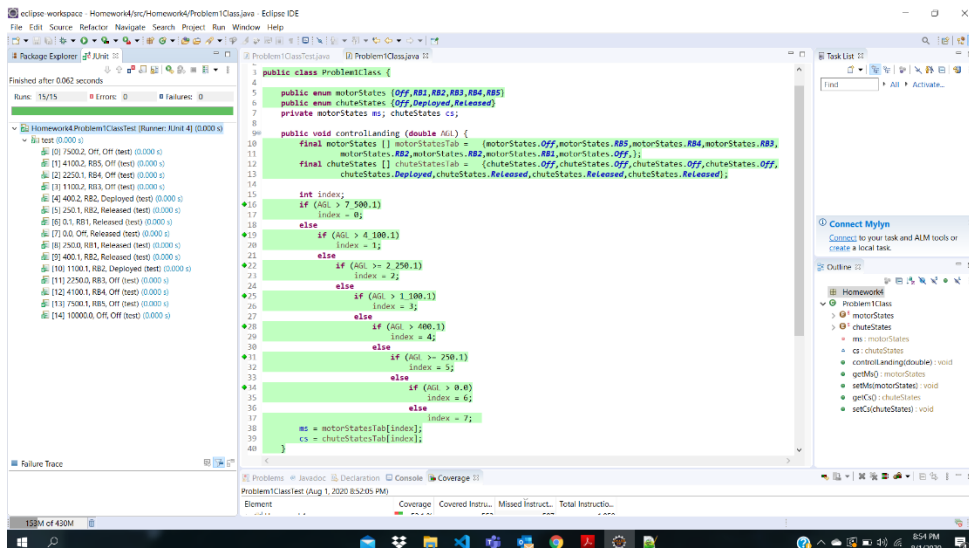
Question 1:

Test case table snapshot:



Test Case Number	Input (AGL in feet)	Expected Output (motorState)	Expected Output (chuteState)	Basis Path
1	7,500.2	OFF	OFF	16-17-38
2	4,100.2	RBS	OFF	16-19-20-38
3	2,250.1	RBA	OFF	16-19-22-38
4	1,100.2	RBS	OFF	16-19-22-25-26-38
5	400.2	RBS	Deployed	16-19-22-25-26-29-38
6	250.1	RBS	Released	16-19-22-25-29-31-32-38
7	0.1	RBS	Released	16-19-22-25-29-31-34-38-38
8	0.0	OFF	Released	16-19-22-25-29-31-34-37-38
9	250.0	RBS	Released	-
10	400.1	RBS	Released	-
11	1,100.1	RBS	Deployed	-
12	2,250.0	RBS	OFF	-
13	4,100.1	RBA	OFF	-
14	7,500.1	RBS	OFF	-
15	10,000.0	OFF	OFF	-

JUnit pass indicator and JaCoCo statement green source line annotations:



Question 2:

Test case table snapshot:

Test Case Number	Input batteryLevel (watts)	red	yellow	green	strobe	bell	Basis Path
1	0.0	TRUE	TRUE	TRUE	FALSE	TRUE	14-15-34
2	35.1	TRUE	TRUE	TRUE	TRUE	FALSE	14-17-18-34
3	60.0	FALSE	TRUE	TRUE	FALSE	TRUE	14-17-20-21-34
4	99.7	FALSE	FALSE	TRUE	FALSE	TRUE	14-17-20-23-24-34
5	99.9	FALSE	FALSE	FALSE	FALSE	TRUE	14-17-20-23-26-27-34
6	200.1	TRUE	TRUE	TRUE	FALSE	TRUE	14-17-20-23-26-29-30-34
7	200.2	FALSE	FALSE	FALSE	FALSE	TRUE	14-17-20-23-26-29-32-34
8	0.1	TRUE	TRUE	TRUE	TRUE	FALSE	-
9	35.2	FALSE	TRUE	TRUE	FALSE	TRUE	-
10	60.1	FALSE	FALSE	TRUE	FALSE	TRUE	-
11	99.8	FALSE	FALSE	FALSE	FALSE	TRUE	-
12	100.0	TRUE	TRUE	TRUE	FALSE	TRUE	-
13	1,000.0	FALSE	FALSE	FALSE	FALSE	TRUE	-

JUnit pass indicator and JaCoCo statement green source line annotations:

```
public class Problem2Class {
    public void calcLights(double batteryLevel, Problem2ClassAlarm alarm) {
        boolean red [] = { false, false, false, false, true, true };
        boolean yellow [] = { false, false, true, true, true, true };
        boolean green [] = { false, false, true, true, true, true };
        boolean strobe [] = { false, false, false, false, true, false };
        boolean bell [] = { true, true, true, true, false, true };
        int index;

        if (batteryLevel < 0.1)
            index = 5;
        else if (batteryLevel <= 35.1)
            index = 4;
        else if (batteryLevel <= 60.0)
            index = 3;
        else if (batteryLevel < 99.8)
            index = 2;
        else if (batteryLevel < 100.0)
            index = 1;
        else if (batteryLevel < 200.2)
            index = 5;
        else
            index = 0;

        alarm.setRedLight(red[index]);
        alarm.setYellowLight(yellow[index]);
        alarm.setGreenLight(green[index]);
        alarm.setStrobe(strobe[index]);
        alarm.setBell(bell[index]);
    }
}
```

AutoSave

Problem3TestCaseTable - Last Modified: Just now

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K11

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1			Inputs		Exp Out															
2	Test Case Number	prime	memberPoints	total	Return	Basis Path														
3	1	TRUE	1,001	\$6,500.01	TRUE	8-9-10-20 stmts 9-14 TFT														
4	2	FALSE	551	\$6,500.01	TRUE	8-16-17-18-19-20 stmts 16-19 TTT														
5	3	TRUE	1,000	\$2,500.01	TRUE	8-9-12-13-14-20 stmts 9-14 FFT														
6	4	FALSE	550	\$6,500.01	FALSE	8-16-20 stmts 16-19 FFT														
7	5	TRUE	1,000	\$6,500.01	FALSE	8-9-12-20 stmts 9-14 TFT														
8	6	FALSE	551	\$9,000.00	FALSE	8-16-17-20 stmts 16-19 TFT														
9	7	TRUE	1,000	\$2,500.00	FALSE	8-9-12-13-20 stmts 9-14 TFT														
10	8	FALSE	551	\$6,500.00	FALSE	8-16-17-18-20 stmts 16-19 TTF														
11	9	TRUE	1,000	\$6,500.00	TRUE	stmts 9-14 other FFT BV														
12	10	FALSE	551	\$8,999.99	TRUE	stmts 16-19 other TT BV														
13	11	TRUE	0	\$6,500.00	TRUE	ER memberPoints														
14	12	TRUE	9,999	\$6,500.00	TRUE	ER memberPoints														
15	13	TRUE	550	\$0.00	FALSE	ER total														
16	14	TRUE	550	\$20,000.00	FALSE	ER total														
17																				
18																				
19																				
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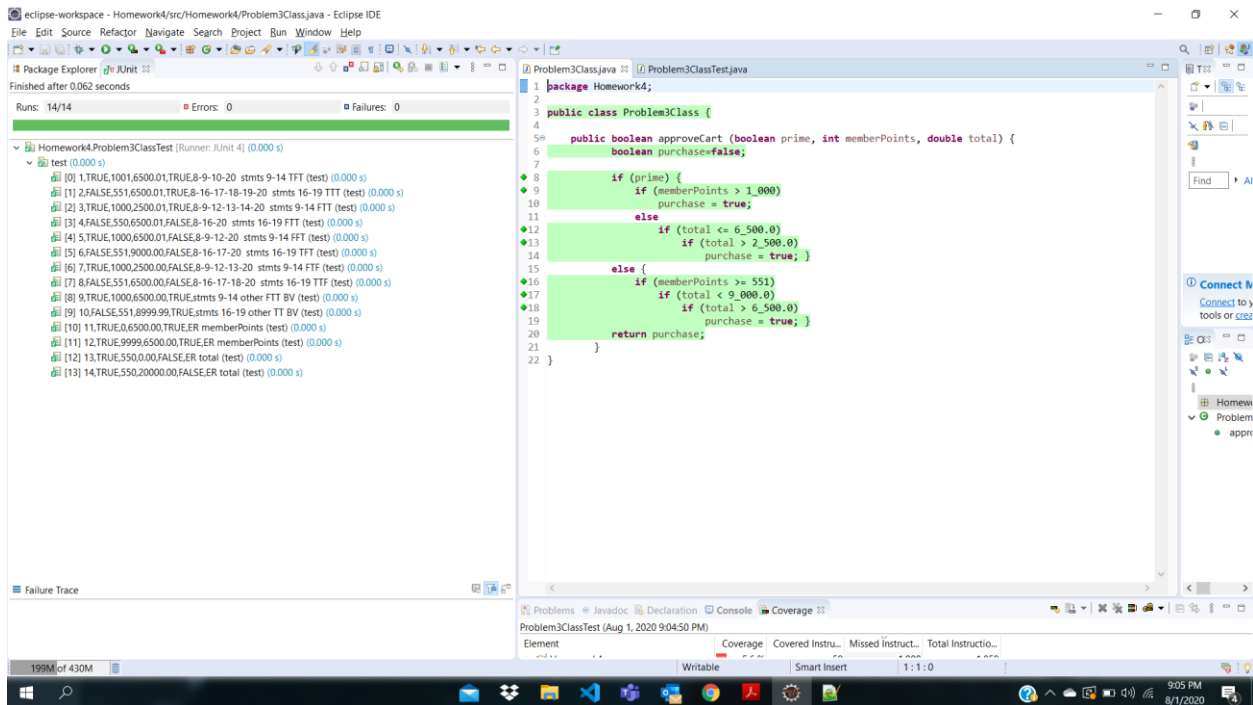
test case table

100%

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8/1/2020

JUnit pass indicator and JaCoCo statement green source line annotations:

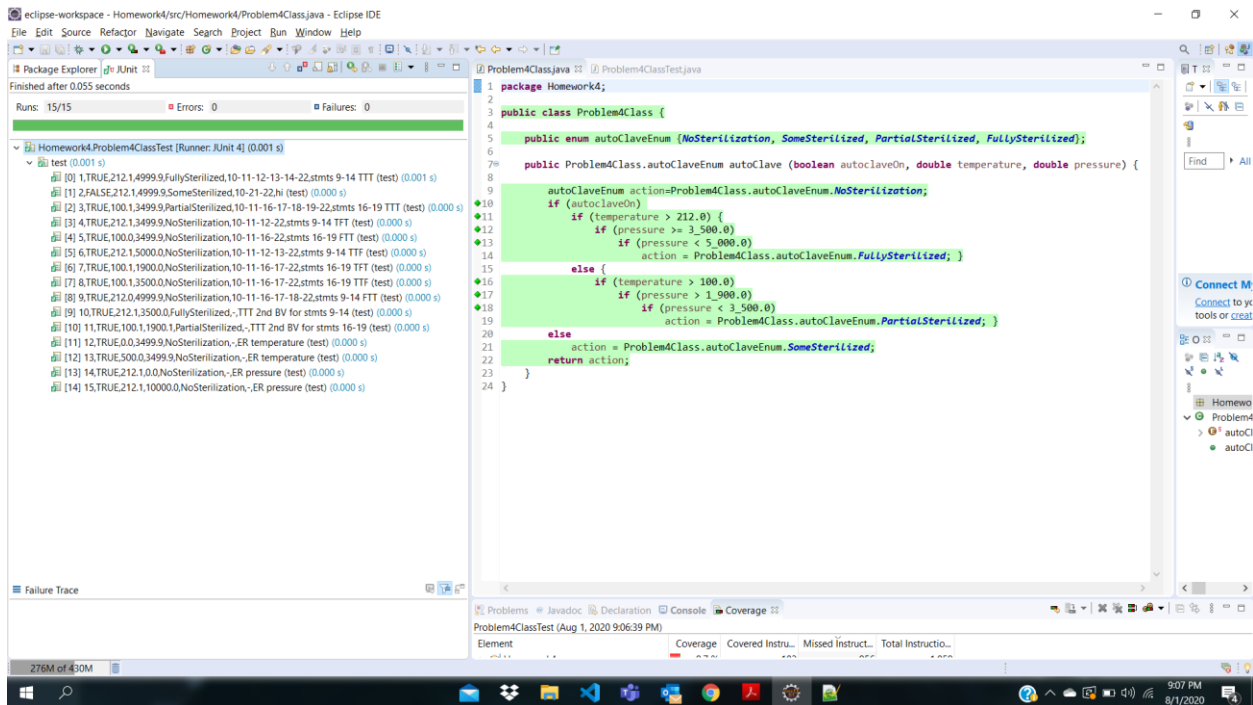


Question 4:

Test case table snapshot:

Problem4TestcaseTable - Saved															
File Home Insert Page Layout Formulas Data Review View Help															
Clipboard Font Alignment Number Styles Cells Editing Ideas Sensitivity															
K11															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Inputs	Exp Out											
2	Test Case Number	autoclaveOn	temperature (degrees F)	pressure (psi)	return	Basis Path	Comments								
3	1	TRUE	212.1	4,999.9	FullySterilized	10-11-12-13-14-22	stmts 9-14 TTT								
4	2	FALSE	212.1	4,999.9	SomeSterilized	10-21-22									
5	3	TRUE	100.1	3,499.9	PartialSterilized	10-11-16-17-18-19-22	stmts 16-19 TTT								
6	4	TRUE	212.1	3,499.9	NoSterilization	10-11-12-22	stmts 9-14 TFT								
7	5	TRUE	100.0	3,499.9	NoSterilization	10-11-16-22	stmts 16-19 FTT								
8	6	TRUE	212.1	5,000.0	NoSterilization	10-11-12-13-22	stmts 9-14 TTF								
9	7	TRUE	100.1	1,900.0	NoSterilization	10-11-16-17-22	stmts 16-19 TFT								
10	8	TRUE	100.1	3,500.0	NoSterilization	10-11-16-17-22	stmts 16-19 TTF								
11	9	TRUE	212.0	4,999.9	NoSterilization	10-11-16-17-18-22	stmts 9-14 FTT								
12	10	TRUE	212.1	3,500.0	FullySterilized	-	TTT 2nd BV for stmts 9-14								
13	11	TRUE	100.1	1,900.1	PartialSterilized	-	TTT 2nd BV for stmts 16-19								
14	12	TRUE	0.0	3,499.9	NoSterilization	-	ER temperature								
15	13	TRUE	500.0	3,499.9	NoSterilization	-	ER temperature								
16	14	TRUE	212.1	0.0	NoSterilization	-	ER pressure								
17	15	TRUE	212.1	10,000.0	NoSterilization	-	ER pressure								

JUnit pass indicator and JaCoCo statement green source line annotations:



Question 5:

Test case table snapshot:

Test Case Number		Inputs	Exp Out	Basis Path
		x	y	
1		-1.01	6.00	8-9-27
2		-0.01	7.00	8-11-12-27
3		2.00	0.00	8-11-14-15-27
4		6.00	0.00	8-11-14-17-18-27
5		8.00	6.00	8-11-14-17-20-21-27
6		9.00	6.00	8-11-14-17-20-23-24-27
7		9.01	7.00	8-11-14-17-20-23-26-27
8		-2.00	6.00	extreme range
9		10.00	7.00	extreme range
10		-1.00	7.00	-
11		0.00	7.00	-
12		2.01	0.04	-
13		6.01	0.03	-
14		8.01	6.00	-
15		1.00	3.50	mid-point linear
16		4.00	4.00	parabolic mid
17		5.00	3.00	parabolic 1
18		7.00	3.00	mid-point linear
Test case 13 may also be:				
x=3.00 and y= 3.00				

JUnit pass indicator and JaCoCo statement green source line annotations:

