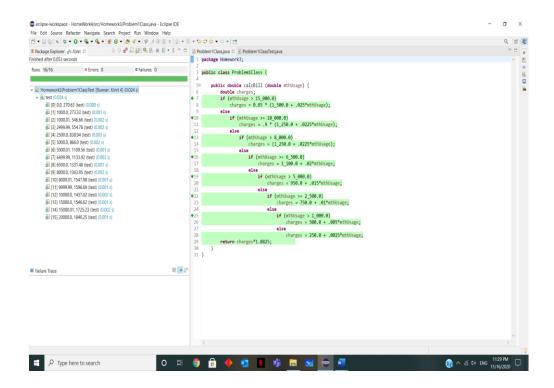
HomeWork4:

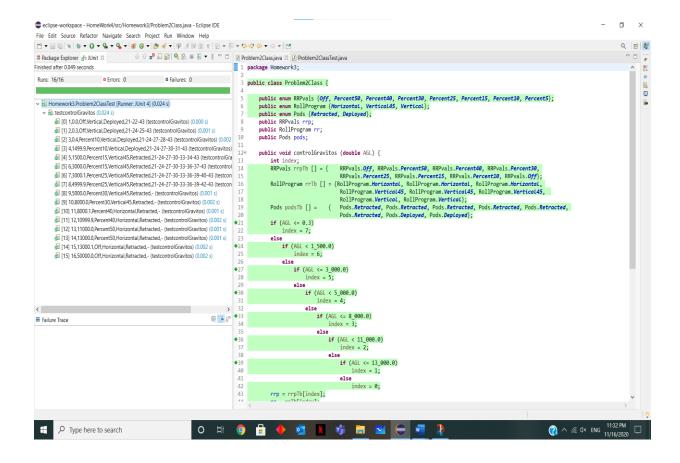
Solution1:

Test		Ехр	
Case	Inputs	Outputs	
Number		Total	
	Usage (hours/mth)	Price	Basis Path
1	0.00	\$270.63	7-8-29
2	1,000.00	\$273.33	7-10-11-29
3	1,000.01	\$546.66	7-10-13-14-29
4	2,499.99	\$554.78	7-10-13-16-17-29
5	2,500.00	\$838.94	7-10-13-16-19-20-29
6	5,000.00	\$866.00	7-10-13-16-19-22-23-29
			7-10-13-16-19-22-25-26-
7	5,000.01	\$1,109.56	29
			7-10-13-16-19-22-25-28-
8	6,499.99	\$1,133.92	29
9	6,500.00	\$1,331.48	-
10	8,000.00	\$1,363.95	-
11	8,000.01	\$1,547.98	-
12	9,999.99	\$1,596.69	-
13	10,000.00	\$1,437.02	-
14	15,000.00	\$1,546.62	-
15	15,000.01	\$1,725.23	-
16	20,000.00	\$1,840.25	-



Solution2:

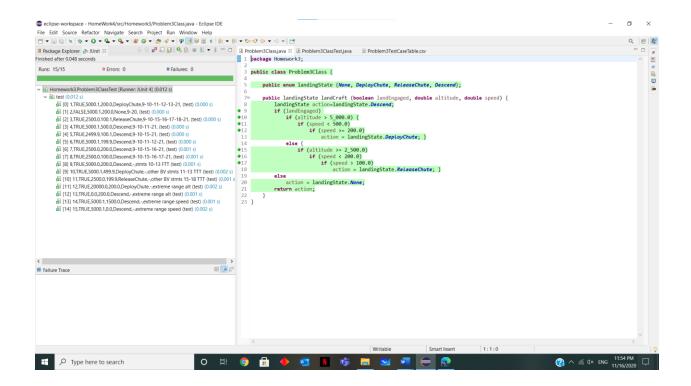
Test	Inputs	Expected Outputs			
Case			Roll		
Number	AGL (feet)	RRP	Program	Pods	Basis Path
1	0.0	Off	Vertical	Deployed	21-22-43
2	0.3	Off	Vertical	Deployed	21-24-25-43
3	0.4	Percent10	Vertical	Deployed	21-24-27-28-43
4	1,499.9	Percent10	Vertical	Deployed	21-24-27-30-31-43
5	1,500.0	Percent15	Vertical45	Retracted	21-24-27-30-33-34-43
6	3,000.0	Percent15	Vertical45	Retracted	21-24-27-30-33-36-37-43
					21-24-27-30-33-36-39-40-
7	3,000.1	Percent25	Vertical45	Retracted	43
					21-24-27-30-33-36-39-42-
8	4,999.9	Percent25	Vertical45	Retracted	43
9	5,000.0	Percent30	Vertical45	Retracted	-
10	8,000.0	Percent30	Vertical45	Retracted	-
11	8,000.1	Percent40	Horizontal	Retracted	-
12	10,999.9	Percent40	Horizontal	Retracted	-
13	11,000.0	Percent50	Horizontal	Retracted	-
14	13,000.0	Percent50	Horizontal	Retracted	-
15	13,000.1	Off	Horizontal	Retracted	-
16	50,000.0	Off	Horizontal	Retracted	-



Soltution3:

Test	Inputs		Exp Out			
Case		altitude	speed			
Number	landEngaged	(feet)	(MPH)	action	Basis Path	Comments
1	TRUE	5,000.1	200.0	DeployChute	9-10-11-12-13-21	
2	FALSE	5,000.1	200.0	None	9-20	
					9-10-15-16-17-18-	
3	TRUE	2,500.0	100.1	ReleaseChute	21	
4	TRUE	5,000.1	500.0	Descend	9-10-11-21	
5	TRUE	2,499.9	100.1	Descend	9-10-15-21	
6	TRUE	5,000.1	199.9	Descend	9-10-11-12-21	
7	TRUE	2,500.0	200.0	Descend	9-10-15-16-21	
8	TRUE	2,500.0	100.0	Descend	9-10-15-16-17-21	
9	TRUE	5,000.0	200.0	Descend	-	stmts 10-13 FTT
						other BV stmts 11-13
10	TRUE	5,000.1	499.9	DeployChute	-	TTT
						other BV stmts 15-18
11	TRUE	2,500.0	199.9	ReleaseChute	-	TTT
12	TRUE	20,000.0	200.0	DeployChute	-	extreme range alt
13	TRUE	0.0	200.0	Descend	-	extreme range alt
14	TRUE	5,000.1	1,500.0	Descend	-	extreme range speed
15	TRUE	5,000.1	0.0	Descend	-	extreme range speed

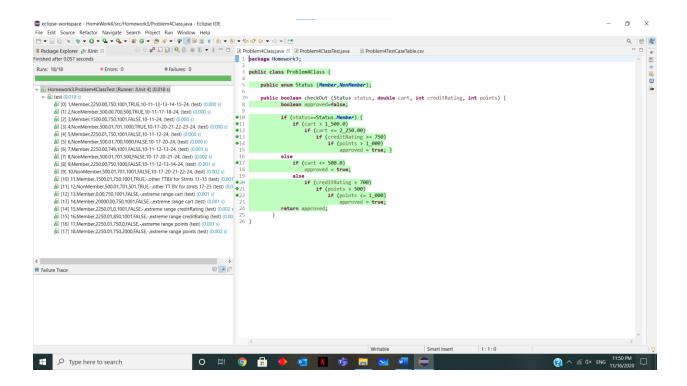
Any value may be used here



Soltution4:

Test	Inputs			Exp Out			
Case			-				
Number	status	cart	creditRating	points	return	Basis Path	Comments
1	Member	\$2,250.00	750	1,001	TRUE	10-11-12-13-14-15-24	
2	NonMember	\$500.00	700	500	TRUE	10-11-17-18-24	
3	Member	\$1,500.00	750	1,001	FALSE	10-11-24	
4	NonMember	\$500.01	701	1,000	TRUE	10-17-20-21-22-23-24	
5	Member	\$2,250.01	750	1,001	FALSE	10-11-12-24	
6	NonMember	\$500.01	700	1,000	FALSE	10-17-20-24	
7	Member	\$2,250.00	749	1,001	FALSE	10-11-12-13-24	
8	NonMember	\$500.01	701	500	FALSE	10-17-20-21-24	
9	Member	\$2,250.00	750	1,000	FALSE	10-11-12-13-14-24	
10	NonMember	\$500.01	701	1,001	FALSE	10-17-20-21-22-24	
							other TT BV
							for stmts
11	Member	\$1,500.01	750	1,001	TRUE	-	11-15
							other TT BV
							for stmts
12	NonMember	\$500.01	701	501	TRUE	-	17-23
		40.00	750				extreme
13	Member	\$0.00	750	1,001	FALSE	-	range cart
1.4	N 4 a mada a m	¢20,000,00	750	1 001	FALCE		extreme
14	Member	\$20,000.00	750	1,001	FALSE	-	range cart
							extreme range
15	Member	\$2,250.01	0	1,001	FALSE	_	creditRating
	Weilinger	ψ2)230.01		1,001	171202		extreme
							range
16	Member	\$2,250.01	850	1,001	FALSE	-	creditRating
							extreme
							range
17	Member	\$2,250.01	750	0	FALSE	-	points
							extreme
							range
18	Member	\$2,250.01	750	2,000	FALSE	-	points

Any value may be used here



Soltution5:

Test	Inputs	Exp Out	
Case	Х	у	
Number			Basis Path Tested
1	-0.01	0.00	7-8-20
2	1.99	1.99	7-10-11-20
3	5.99	1.96	7-10-13-14-20
4	7.99	0.01	7-10-13-16-17-20
5	8.00	0.00	7-10-13-16-19-20
6	0.00	0.00	-
7	2.00	2.00	-
8	6.00	2.00	-
9	-4.00	0.00	extreme range
10	10.00	0.00	extreme range
11	1.00	1.00	mid-point linear
12	4.00	-2.00	parabolic mid
13	5.00	-1.00	parabolic 1
14	7.00	1.00	mid-point linear

