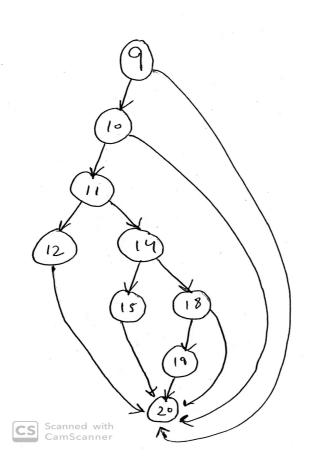
1) Decision table: -

altfeet in feets						R6
Conditions	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5	F
GeauUp = True	T	T	T	T	T	
0.0<=altfeet<=50.0	Υ					
50.1<=altfeet<=100.0		Υ				
100.10<=allfeet<=200.0			Υ			
200.10<=allfeet<=400.0				Υ		ALL Others
400.1<=allfeet<=50,000.0					Υ	
Actions						
gndCollCaut	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
gndCollWarn	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
gndCollAlert	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE
emerGD	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
Table implements first of rule						

2)



3) Cyclomatic complexity is 6.

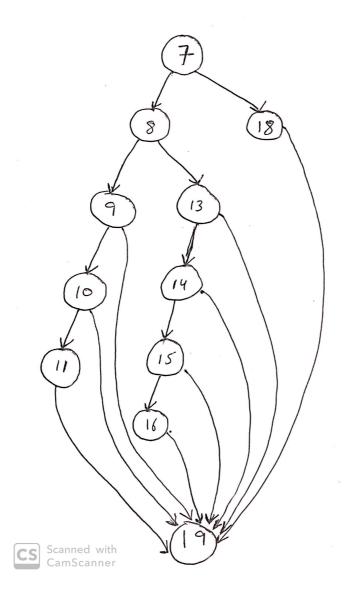
	In	put	Exp Output				
Test Case Number	gearUp	altfeet	gndCollCaut	gndCollWarn	gndCollAlert	emerGD	Basis Path
1	TRUE	200.1	TRUE	FALSE	FALSE	FALSE	9-10-11-12-20
2	FALSE	200.1	FALSE	FALSE	FALSE	FALSE	9-20
3	TRUE	400.1	FALSE	FALSE	FALSE	FALSE	9-10-20
4	TRUE	100.1	FALSE	TRUE	FALSE	FALSE	9-10-11-14-15-20
5	TRUE	50.0	FALSE	FALSE	TRUE	TRUE	9-10-11-14-18-19-20
6	TRUE	50.1	FALSE	FALSE	TRUE	FALSE	9-10-11-14-18-20
7	TRUE	200.0	FALSE	TRUE	FALSE	FALSE	-
8	TRUE	100.0	FALSE	FALSE	TRUE	FALSE	-
9	TRUE	400.0	TRUE	FALSE	FALSE	FALSE	-
10	TRUE	50,000.0	FALSE	FALSE	FALSE	FALSE	extreme range (altfeet)
11	TRUE	0.0	FALSE	FALSE	TRUE	TRUE	extreme range (altfeet)

- 5) Code coverage achieved is full boundary coverage, full statement and decision coverage, and extreme range coverage.
- 6) Yes, test cases support the description.

b)

1) Decision Table –

Decision 10	ibic							
Altitude in feet	:							
Speed in mph								
Conditions	R1	R2	R3	R4	R5	R6	R7	R8
Landing = True	Υ	Υ	Υ	Υ	Υ	Υ	Υ	F
0.0 <= altitude	<= 2499.9			Υ			Υ	
2500.0 <= altit	ude <= 5000.0	Υ				Υ		
5000.1 <= altit	Υ		Υ		Υ			
0.0 <= speed <	= 100.0						Υ	ALL Others
100.1 <= spee	d <= 199.9	Υ			Υ			
200.0 <= spee	Υ					Υ		
500.0 <= speed	<= 1000.0		Υ	Υ				
ACTIONS								
action	DEPLOY	releaseChute	NONE	NONE	none	none	none	descend



3) Cyclomatic complexity is 8.

Test Case	Inputs			Exp Output	Comments
Number	Landing	altitude	speed	Return	
1	TRUE	5000.1	200.0	deploy	7-8-9-10-11-19
2	FALSE	5000.1	200.0	descend	7-18-19
3	TRUE	2500.0	100.1	release	7-8-13-14-15-16-19
4	TRUE	5000.1	500.0	none	7-8-9-19
5	TRUE	2499.9	500.0	none	7-8-13-19
6	TRUE	5000.1	199.9	none	7-8-9-10-19
7	TRUE	2500.0	200.0	none	7-8-13-14-19
8	TRUE	2500.0	100.0	none	7-8-13-14-15-19
9	TRUE	5000.1	499.9	deploy	-
10	TRUE	5000.0	499.9	none	-
11	TRUE	5000.1	0.0	none	Extreme range speed
12	TRUE	5000.1	1000.0	none	Extreme range speed
13	TRUE	0.0	499.9	none	Extreme range altitude
14	TRUE	10000.0	499.9	deploy	Extreme range altitude

⁵⁾ Code coverage achieved is full boundary coverage, full statement and decision coverage, and extreme range coverage.

⁶⁾ Yes, test case support the description.