LAB ASSESMENT - 1

Q1.

1) Partition the domain of each parameter into equivalence classes and label the classes and list them.

Ans.

• Input classes:

Risk Probaility

RP1:1-5

RP2: input other than integer

RP3: out of range

Risk Impact

RI1:1-5

RI2: input other than integer

RI3: out of range

• Output classes:

Risk Exposure

High: RP1 * RI1 > 9

Moderate: RP1 * RI1 < 10 && > 2

Low: RP1 * RI1 <=2

Invalid

Out of range

2) Develop a set of test cases for the app.... set of test cases.

Test No.	Input		Evenosted output	Actual output	
rest no.	RP	RI	Expected output	Actual output	
1.	3	3	MODERATE	MODERATE	

2.	3	Α	INVALID	INVALID
3.	3	10	OUT OF RANGE	OUT OF RANGE
4.	Α	3	INVALID	INVALID
5.	Α	Α	INVALID	INVALID
6.	Α	10	INVALID	INVALID
7.	10	1	OUT OF RANGE	OUT OF RANGE
8.	10	Α	OUT OF RANGE	OUT OF RANGE
9.	10	10	OUT OF RANGE	OUT OF RANGE

3) To better test the classification performed by the app, partition the output domain and develop additional test cases to cover any class not covered by your test cases in (2).

Ans. As we can see in the below table, that all the input and output classes are covered in the developed test cases. So no need to separate the output domain here.

Test No.	Input		Expected output		
rest ivo.	RP RI		Expected output		
1.	RP1	RP1	HIGH/MODERATE/LOW		
2.	RP1	RI2	INVALID		
3.	RP1	RI3	OUT OF RANGE		
4.	RP2	RI1	INVALID		
5.	RP2	RI2	INVALID		
6.	RP2	RI3	INVALID		
7.	RP3	RP1	OUT OF RANGE		
8.	RP3	RI2	OUT OF RANGE		
9.	RP3	RI3	OUT OF RANGE		

Q2. Develop a complete limited entry decision table for the situation given in the question.

Ans.

Conditions:

Age: >18, 2 > && <=18, 2

Destination: In Germany, Outside Germany

WeekDays: Monday or Friday, Other weekdays except (M&F)

Number of days : < 6 days, >= 6 days

Output:

Discount: 10%, 20%, 25%, 30%, 40%, FREE, NONE

Decision table test cases:

Rules	Age	Dest.	WeekDays	No. of days	Output (Discount)
1.	>18	In Germany	Monday or friday	< 6	NONE
2.	>18	In Germany	Monday or friday	>=6	10%
3.	>18	In Germany	Other weekdays	< 6	20%
4.	>18	In Germany	Other weekdays	>=6	30%
5.	>18	Outside Germany	Monday or friday	< 6	NONE
6.	>18	Outside Germany	Monday or friday	>=6	NONE
7.	>18	Outside Germany	Other weekdays	< 6	25%
8.	>18	Outside Germany	Other weekdays	>=6	25%

9.						
10. 2> && In Monday >=6 40% 11. 2> && In Other weekdays <6 40% 12. 2> && In Other weekdays >=6 40% 13. 2> && In Other weekdays >=6 40% 14. 2> && Outside Germany weekdays >=6 40% 15. 2> && Outside Other <=18 Germany or friday >=6 40% 16. 2> && Outside Other <=18 Germany weekdays >=6 40% 17. 2 Germany weekdays >=6 40% 18. 2 In Monday >=6 FREE 19. 2 Outside Germany weekdays >=6 FREE 20. 2 Outside Germany or friday >=6 FREE 21. 2 Outside Germany or friday >=6 FREE 22. 2 Outside Germany Other <6 FREE 23. 2 Outside Other <6 FREE 24. 2 In Monday >=6 FREE 24. 2 In Monday >=6 FREE 24. 2 In Monday >=6 FREE 25. EFFE	9.	2> &&	In	Monday	< 6	40%
10.		<=18	Germany	or friday		
11.	10.	2> &&	In	Monday	>-6	40%
11. <=18		<=18	Germany	or friday	/=0	
12.	11	2> &&	In	Other	< 6	40%
12.	11.	<=18	Germany	weekdays		
13. 2> && Outside Monday or friday or friday 14. 2> && Outside Germany or friday 15. 2> && Outside Germany or friday 15. 2> && Outside Other 16. 2> && Outside Other 17. 2 In Monday 18. 2 In Other 19. 2 Outside Monday 19. 2 Outside Monday 19. 2 Outside Monday 19. 2 Outside Monday 19. 2 Outside Other 20. 2 Outside Other 21. 2 Outside Other 22. 2 Outside Other 23. 2 Outside Other 24. 2 Outside Other 24. 2 Outside Other 24. 2 Outside Other 26. ERFE	12	2> &&	In	Other	>-6	40%
13.	12.	<=18	Germany	weekdays	/=0	
14.	12	2> &&	Outside	Monday	. C	400/
14. <=18	15.	<=18	Germany	or friday	\ 0	40%
15.	1./	2> &&	Outside	Monday	>-6	40%
15. <=18 Germany weekdays	14.	<=18	Germany	or friday	/-0	
Company Comp	1 [2> &&	Outside	Other	. 6	40%
16. <=18 Germany weekdays	15.	<=18	Germany	weekdays	< 0	
17. 2 In Monday	16	2> &&	Outside	Other	>=6	40%
17. 2 Germany or friday >=6 FREE 18. 2 In Other weekdays	10.	<=18	Germany	weekdays		
18. 2 In Other weekdays 19. 2 In Other weekdays 20. 2 Outside Monday or friday 21. 2 Outside Monday or friday 22. 2 Outside Monday or friday 23. 2 Outside Other weekdays 24. 2 In Monday 25. 5 FREE 26. 5 FREE 27. 6 FREE 28. 6 FREE 29. 6 FREE 20. 7 Outside Other weekdays 20. 7 Outside Other weekdays 21. 8 Outside Other weekdays 22. 6 FREE 23. 7 Outside Other weekdays 24. 7 Outside Other weekdays 25. 6 FREE	17	2	In	Monday	>=6	FREE
18. 2 Germany weekdays <6 FREE 19. 2 In Other weekdays >=6 FREE 20. 2 Outside Monday or friday <6 FREE 21. 2 Outside Monday or friday >=6 FREE 22. 2 Outside Other weekdays <6 FREE 23. 2 Outside Other weekdays <6 FREE 24. 2 In Monday >=6 FREE	17.		Germany	or friday		
19. 2 In Other weekdays 20. 2 Outside Monday or friday 21. 2 Outside Monday or friday 22. 2 Outside Monday or friday 23. 2 Outside Other weekdays 24. 2 In Monday 26. FREE	10	2	In	Other	< 6	FREE
19. 2 Germany weekdays >=6 FREE 20. 2 Outside Monday or friday >=6 FREE 21. 2 Outside Monday or friday >=6 FREE 22. 2 Outside Other weekdays >=6 FREE 23. 2 Outside Other weekdays >=6 FREE 24. 2 In Monday >=6 FREE	10.		Germany	weekdays		
20. 2 Outside Monday or friday >=6 FREE 21. 2 Outside Monday or friday >=6 FREE 22. 2 Outside Other weekdays 23. 2 Outside Other weekdays 24. 2 In Monday >=6 FREE	10	2	In	Other	>=6	FREE
20. 2 Germany or friday	15.		Germany	weekdays		
21. 2 Outside Monday or friday >=6 FREE 22. 2 Outside Germany or friday or friday 23. 2 Outside Germany weekdays 24. 2 In Monday >=6 FREE	20.	2	Outside	Monday	< 6	FREE
Germany or friday >=6 FREE 22. 2 Outside Germany weekdays <6 FREE 23. 2 Outside Other weekdays >=6 FREE 24. 2 In Monday >=6 FREE		2	Germany	or friday		
22. 2 Outside Other Weekdays 23. 2 Outside Other Weekdays 24. 2 In Monday Germany or friday Other Weekdays >=6 FREE FREE	21.	2	Outside	Monday	>=6	FREE
22. 2 Germany weekdays <6 FREE 23. 2 Outside Other Germany weekdays >=6 FREE 24 2 In Monday >=6 FREE			Germany	or friday		
23. 2 Outside Other Germany weekdays >=6 FREE In Monday >=6 FREE	22.	2	Outside	Other	< 6	FREE
23. 2 Germany weekdays >=6 FREE 24 2 In Monday >=6 FREE			Germany	weekdays		
Germany weekdays In Monday >=6 FRFF	23.	2	Outside	Other	>=6	FREE
/4			Germany	weekdays		
Germany or friday	24.	2	In	Monday	>=6	FREE
		2	Germany	or friday		