

Q2:

1. Statements

1 test case

Start → A → B → C → D → End

2. Decisions (branches)

2 test cases

Start → A → B → C → D → End

Start → A → C → End

3. Paths

4 test cases

Start → A → B → C → D → End

Start → A → B → C → End

Start → A → C → D → End

Start → A → C → End

Q3:

Decision Base Table:

Conditions	Rule 1 Rule 2 Rule 3 Rule 4
Email	T T F F
Password	T F T F
Actions(Log in successfully)	Yes No No No

T: Correct email / Correct password

F: Wrong email / Wrong password

Yes: Successful login and redirect to home page

No: Login failed and displays an error message

Happy scenario:

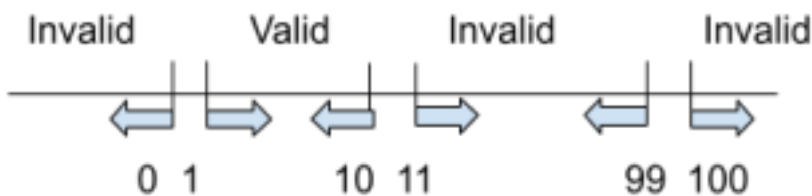
1- Enter the correct email and the correct password and click on login, successful login and redirect to the home page.

Bad scenarios:

- 2- Enter correct email and wrong password and click on login, login failed and displays an error message.
- 3- Enter the wrong email and correct password and click on login, login failed and displays an error message.
- 4- Enter the wrong email and wrong password and click on login, login failed and displays an error message.

Q4:

1. Boundary Value specification will be:



Boundary Values: 0, 1, 10, 11, 99, 100

0 1 2 9 10 11 12 98 99 100

1 2 9 10 → Valid Values → A success message is shown.

0 11 12 98 99 100 → Invalid Values → An error message will appear, "Only 10 Pizza can be ordered"

2. And Equivalence Partitions will be:



1. Equivalence partition 1: $1 > \text{Pizza values}$ /// Less than 1 /// **Invalid**
2. Equivalence partition 2: $1 \leq \text{Pizza values} \leq 10$ /// $1 \rightarrow 10$ /// **Valid**
3. Equivalence partition 3: $10 < \text{Pizza values} \leq 99$ /// $11 \rightarrow 99$ /// **Invalid**
4. Equivalence partition 4: $99 < \text{Pizza values}$ /// More than 99 /// **Invalid**

Then we select one test case from each partition:

Partition 1 → -3 → **Invalid**

Partition 2 → 7 → **Valid**

Partition 3 → 40 → **Invalid**
Partition 4 → 110 → **Invalid**

Q5:

Control flow graph:

