LEADSQUARED ASSESSMENT

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Q1.
You need to write as many test cases as possible for a simple software program which computes the eligible discount for a customer. Try to describe all possible scenarios in a tabular format. Do not worry about 'login' kind of test cases, and just focus on how you will validate discount calculation. These are the rules. If the customer is new, and they are willing to sign up for a new loyalty card, they get a 15% discount on all their purchases on the day. Second if they are an existing customer and hold a loyalty card, they get a 10% discount. Third, if they have a discount coupon, they will get 20% off which cannot be used with the new customer discount but can be used with loyalty card discount. Discount amounts are added, if applicable.
A1.
As to answer this question, first we need to segregate our inputs because then only we will be able to make a decision table. Coming to the question, by input we mean the type of customer. The processing would be the amount of discount they avail.
There will be 6 categories of the inputs i.e. users in this situation –

1. New customers with coupon
2. New customers without coupon
3. Existing customers with a loyalty card and no coupon
4. Existing customers without a loyalty card and no coupon
5. Existing customers with a loyalty card and coupon
6. Existing customers without a loyalty card and with a coupon

Type of Customer| Discount	New customers, no coupon	New customers, with coupon	Existing customers with loyalty card and no coupon	Existing customers without loyalty card and no coupon	Existing customers with loyalty card and coupon	Existing customers without loyalty and with a coupon
15%	X					
10%			X		X	
20%		X			X	X
No discount				X		

1. Verify if the coupon was valid
2. Verify if the customer is new
3. Verify if the loyalty card is valid
4. Verify is the customer is already existing or not
5. Check if the discount applied is valid
6. Check if all the decisions made using the decision table are correct or not
7. Check if the mathematical calculation to be done is right or not

Q2 The following appeared as part of an article in the business section of a local newspaper: "Ronnie's Auto Repair Shop commenced business four months ago at the location formerly occupied by the Jenny's Beauty Parlor. Ronnie's Auto must be doing well at this location, because it intends to open a big shop in an adjacent town. Jenny's, on the other hand, has seen a lower volume of business in its first year at its new location compared to the prior year at its former location. Jenny's definitely erred in shifting to its new location; its former location is a better site."
Discuss how well reasoned you find this argument. In your discussion, be sure to analyze the line of reasoning and the use of evidence in the argument. For example, you may need to consider what questionable assumptions underlie the thinking and what alternative explanations or counterexamples might weaken the conclusion. You can also discuss what sort of evidence would strengthen or refute the argument, what changes in the argument would make it more logically sound, and what, if anything, would help you better evaluate its conclusion.

A2. I feel this argument is not at all well-reasoned and there are a lot of blank spaces to actually come to a defined decision. There is a myriad of parameters that should be taken in consideration and haven't been specified.

Assumptions –

1. Both the stores were open for a defined duration and are being compared for equal number of days and store timings
2. Both types of businesses have equal number of visitors to be able to justify their comparison.
3. Sales of jenny's store at previous location compared to sales of repair shop in that location should be measured.

Counter arguments to weaken –

1. There are more number of vehicles per household in the town
2. There is only one repair shop however there are multiple salons in the town

Evidence to stack –

1. What are the number of cars in the old town? If more than 2 per household, there will be more business
2. Number of other salon and repair shops in old town – if salons are more than repair shops, it backs our argument
3. Number of other salon and repair shops in new town – if repair shops are more than salon in new town – it refutes our argument.

We assume that Ronnie's repair shop is doing well that is why they are trying to open a big shop in the nearby town, but to challenge this there could be a case that they are planning to expand their franchise by having strong investors backing them to get higher dividends. So if we could get their exact sales report to confirm their sales are going good then it will make the argument stronger.
More than location, Target audience plays an important role, if the previous location had more customers and less salons that could be a reason why the sales were higher. On the

other hand, if the new town has more number of salons that divides the target population thus sales are lower.
Without the proper statistics, there are a lot of variables as mentioned above.

Q3. How will you test a wireless mouse? What are the different things you will test and check before
you can say that it is a good quality wireless mouse?

A3
MOUSE SPECIFICATIONS-HARDWARE TESTS –

1. Check the company logo in a specific location.
2. Check it has the specification and identification sticker behind.
3. Check if the device has length and width as per the company specifications.
4. Check if the optical region works as per the specification.
5. Check if the device has a USB plug at one end of the wire.
6. Check if the device passes the specification tests other than the standard tests.
7. Check if the plastic body of the device allows holding with the left and right buttons as per specification.
8. Check if the device connections are platform-independent.

INTERACTIONS TESTS FOR THE MOUSE –

1. Check if the Bluetooth is detected by the operating system or not
2. Check if the device doesn't have any hardware conflict during the system boot.
3. Check if the device doesn't have any hardware conflict after the start during the desktop session.
4. Check if the pointer is visible after plugged-in in between the desktop session.
5. Verify if the device is pointing to the right region while pointing on the screen.

FUNCTIONAL TESTS –

1. Verify if the left-clicking will opens the application or selects the regions on the screen.
2. Verify if the right-clicking opens the context window.
3. Verify if the left click allows drag and drop of desktop objects like file, folder, and media.
4. Verify the time duration between two left clicks, in order to consider it as a double click.
5. Verify if the left click allows the selection of the desktop session objects.
6. Verify if the double-clicking the file, folder, and media files open or does the operation as intended.
7. Verify if the scroll works in the files with multi-page content.
8. Verify the scroll-bar operation for up, down, left, and right direction.
9. Check its properties are possible to change using system operations.
10. Verify the speed of the mouse pointer.
11. Check the pressure required for clicking the mouse buttons.
12. check the range up to which the mouse remains operational.