1. 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.

<u>**ANS:**</u> New -> loyalty card -> 15%

Old -> loyalty card -> 10%

Discount coupon -> New one -> 20%; Old one -> 20%

_	LOYALTY	COUPON	LOYALTY + COUPON
NEW	15%	20%	20%
OLD	10%	20%	30% (10% + 20%)

2. 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 Parlour. 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 analyse 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.

<u>**ANS:**</u>

- It would be slightly hasty to assume that Jenny's new location is not as good as previous one by comparing last year's business with this year.
- Because we know that business building takes time. Keep in mind we do not know how many years Jenny spent at the previous location to build that kind of business. And obviously it is a relatively new area & people will take time in spreading the world that Jerry's parlour is a good one.
- Also, if we compare it with Ronnie's business then also, we would get a biased result as they are completely different fields.
- Auto Repair shop certainly has a greater profit margin than a beauty parlour.
- Also, beauty parlour has certain times when the business will be booming. For example, weddings but auto repair shops are booming 24X7.
- Hence, based on these two comparisons it won't be a perfect judgement that Jenny's previous location is better than current location.

3. 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?

ANS:

- Check if the mouse is an optical mouse or not.
- Verify that left-click and right-click buttons are working fine.
- Check if the double click is working fine.
- Verify the time duration between two left clicks, in order to consider it as a double click.
- Check if the scroller is present at the top or not.
- Verify the speed of the mouse pointer.
- Check the pressure required for clicking the mouse buttons.
- Verify the acceleration of the mouse pointer.
- Verify that clicking the button and dragging the mouse operation is working fine (drag and drop functionality).
- Check the dimension of the mouse, if it's suitable to grip and work.
- Verify that the mouse works in all the allowed surfaces.
- Check if the mouse is a wireless mouse or corded mouse.
- In the case of wireless mouse, check the range up to which the mouse remains operational.
- In the case of a wireless mouse, check the battery requirement of the mouse.
- Check if there is an option to switch on or mouse.