1) Write test cases for this scenario:
You are a new customer, and you want to open a credit card account then there are three conditions: first you will get a 15% discount on your first purchase, second if you are an existing customer and you hold a loyalty card, you get a 10% discount and third if you have a coupon, you can get 20% off today (but it can't be used with the 'new customer' discount).

Ans :- The possible combinations for the above given problems are as follows:
● Existing customers with a loyalty card and no coupon
● Existing customers without a loyalty card and no coupon
● New customers with coupon
● Existing customers with a loyalty card and coupon
● Existing customers without loyalty and with a coupon

So from the above obtained combinations we can generate the test cases by building a table as:

Customers	New customers without a coupon	Existing customers with a loyalty card and no coupon	Existing customers without a loyalty card and no coupon	Existing customers with a loyalty card and coupon	Existing customers without loyalty and with a coupon
10%		X		X	
15%	X				
20%				X	X
No discount			X		

So, from the above table we can test against every condition .so, we are going to get 5 test cases which can be used as a test as shown above.

2. Your application has a search engine, you need to search a word: automobiles. The results are displayed in order of priority, title and number of occurrences of the search word. Write all the test cases to test the search engine and if the results are displayed accordingly.

Ans : - The test cases for the above given scenario is as follows:

1. Test case 1: - Test if the search bar is clickable or not.
2. Test case 2: - Check if the search engine is returning anything without placing anything in the search bar or not.
3. Test case 3: -Check if the search engine when searched with invalid input returns the "Did you mean" link .
4. Test case 4: -Check if the search engine is returning anything or not after you write "automobiles" in the search bar.
5. Test case 5: - Test if the search engine returns the results related to rocket and aircrafts after "automobile" is queried in the search bar.
6. Test case 6: -Test if the search engine returns the content containing automobile companies.
7. Test case 7: -Test if the images returned by the search engine includes images of automobiles or not.
8. Test case 8: -Verify that the suggestion provided by search engine are sorted by most popular/relevant suggestions
9. Test case 9: - Verify if the title of the results contain the keyword "automobiles".
10. Test case 10: - Verify that the results contains the questions such as" Why are vehicles called automobiles?", "What are the differences between automobiles and cars?"