Test Scenario:

- Test scenarios gives the idea of what we have to test
- Test scenario is like high level documentation
- Short sentence
- It’s difficult to execute who don’t have product knowledge
- Don’t have data

Test Cases:

- A **Test Case** is a set of actions executed to verify a particular feature or functionality of your software application.
- The test case is defined as a group of conditions under which a tester determines whether a software application is working as per the customer's requirements or not.
- A test case is a first level action and derived from test scenarios.
- Test Case must include:
    - Test Case ID
    - Test Scenario
    - Test Case Description
    - Test Steps
    - Test Data
    - Expected Result
    - Actual Result
    - Status/Result

Why We need write test cases:

1. **To require consistency in the test case execution:** we will see the test case and start testing the application.
2. **To make sure a better test coverage:** for this, we should cover all possible scenarios and document it, so that we need not remember all the scenarios again and again.
3. **It depends on the process rather than on a person:** A test engineer has tested an application during the first release, second release, and left the company at the time of third release. As the test engineer understood a

module and tested the application thoroughly by deriving many values. If the person is not there for the third release, it becomes difficult for the new person. Hence all the derived values are documented so that it can be used in the future.

4. **To avoid giving training for every new test engineer on the product:** When the test engineer leaves, he/she leaves with a lot of knowledge and scenarios. Those scenarios should be documented so that the new test engineer can test with the given scenarios and also can write the new scenarios.

Some Test Case Tools:

1. QACoverage
2. TestCaseLab
3. PlusQA
4. TestRail

Test Case Reviews can be done in three ways:

1. **Self-review:** It is done by the tester himself who has written the test cases. He can verify whether all the requirements are covered or not.
2. **Peer review:** It is done by another tester who hasn't written those test cases but is familiar with the system under test. Also known as Maker and Checker review.
3. **Review by a supervisor:** It is done by a team lead or manager who is superior to the tester who has written the test cases and has great knowledge about the requirements and system under test.

Some of the common mistakes which are check during the test case review process are:

1. **Spelling mistakes:** Sometimes, spelling mistake can create a lot of confusions or make a sentence difficult to understand.
2. **Grammar:** If grammar is not proper then test case can be interpreted in a wrong way, resulting in wrong results.
3. **Template format:** If proper template is followed then it becomes easy to add/modify test cases in future and test case plan looks organized.
4. **Standard/Guidelines:** While review process, it is very important to check whether all the standards and guideline are properly followed.
5. **Language used:** Test cases should have a very simple language which is easy to understand.
6. **Functionality coverage:** It is highly recommended that all the functionality associated with the system under test should be covered so that major defects are not missed.
7. **Replication:** It refers to the duplicate test cases removal. It is possible that two or more test cases test the same thing and can be merged into one, this would save time and space.
8. **Redundancy:** It refers to uselessness of a test case due to change in requirements or some modifications. Such test cases must be removed.