

# Testing

## 1) Test Cases Types - Pass Case Scenario , Fail Case Scenario ,Edge Case Scenario

Annotations used in Junit -

BeforeEach - The method annotated under this gets executed before each and every test method.

BeforeAll - The method annotated under this gets executed before all the test methods and is executed only once at the start.

AfterEach - The method annotated under this gets executed after each and every test method.

AfterAll - The method annotated under this gets executed after all the test methods and is executed only once at the end.

## 2) Use libraries Junit 4.1

Follow this for Junit Assertions - <https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html>

## 3) Use Mockito library for mocking, networks calls, java class creation etc.

Mocking & Isolated Test Case -

Mocking means to create "mock" objects that will replace 'get' method of class B and simulate its behaviour inside the test of 'add' method which belongs to class A.

It is done when there is dependencies among classes

Mockito is a popular open source framework

and we will use it to create mock objects in the coming videos.

## 4) TDD

Test Driven Development

Test->Code->test->code->test->test->code....

Writing test cases that fail

Writing code just enough to pass the failed test case

Making changes to write the code more effectively

Test cases should be independent.

Test cases should not have shared resources

Refactoring -

<https://refactoring.guru/refactoring/techniques>

<https://sourcemaking.com/refactoring/refactorings>