# Parameters of @Test

### 1. Enabled: Boolean

- a. If this parameter is set false, then test method will not take part in execution.
- b. E.g. myTestMethod will not take part in execution.

```
@Test(enabled=false)
public void myTestMethod() {
```

- 2. Priority= int to +int (-2148473638 to + 2,14,84,73,647)
  - a. If we want to execute test methods according to some order, then we can use priority.
  - b. By default all test method have 0 priority.
  - c. If priority is nor t mentioned, then test methods will execute according to the alphabetical order of their name.
  - d. E.g yourTestMethod will execute first as it have highest priority.

```
@Test(priority=1)
public void myTestMethod() {
   System.out.println("Hello");
}
@Test(priority=0)
public void yourTestMethod() {
   System.out.println("Hello");
```

### 3. alwayRun: Boolean

- a. If this is set to true, then test method will execute regardless of any dependency.
- b. In below example, myTestMethod will execute even if it depends on 'yourTestMethod'. See dependsOnMethods for reference.
- c. It can also be used to achieve soft-dependency.

```
@Test(alwaysRun=true)
public void myTestMethod() {
    System.out.println("Hello");
}
@Test(priority=0)
public void yourTestMethod() {
    System.out.println("Hello");
}
```

# 4. invocationCount: +ve int

- a. It is used to execute test method multiple times
- b. E.g @Test(invocationCount=4): Now myTestMethod will execute 4 times and 4 different tests will appear in report.

```
@Test(invocationCount=4)
public void myTestMethod() {
   System.out.println("Hello");
}
```

- c. If invocationCount is set to 0, then test method will not execute even once.
- 5. invocationTimeOut: long
  - a. It is used to set the maximum time a test should take to execute.
  - b. If the specified time is crossed by test case, then it will be marked as fail in Report.
  - c. If the test method is executed multiple times, then invocationTimeOut specifies cumulative time taken by all threads to execute it.
  - d. It takes time in milliseconds.
  - e. E.g. @Test(invocationTimeOut=4000):

```
@Test(invocationTimeOut=4000)
public void myTestMethod() {
  Thread.sleep(6000);
  System.out.println("Hello");
}
```

- 6. timeOut: long
  - Max permitted time to run this test. Otherwise it will be marked as failed
  - b. In this example myTestMethod will fail

```
@Test(timeOut=4000)
public void myTestMethod() {
  Thread.sleep(6000);
  System.out.println("Hello");
}
```

- 7. successPercentage: +Ve int
  - a. It is used to specify success percentage of the test case.
  - b. Lets say, we have set the successPercentage to 70 and our test method have 10 checks. 7 checks are pass whereas 3 checks are fail. Still we will consider our test case as PASS.
  - c. E.g @Test(successPercentage=50). Below method will pass as 50% checks are passing.

```
@Test(successPercentage=50)

public void myTestMethod() {

System. out.println("Hello");

Assert.assertEquals(1, 1);

Assert.assertEquals(2, 2);
```

- d. Default value of successPercentage is 100 for all test methods even if you don't write.
- 8. expectedExceptions: List {A.class,B.class,C.class}
  - a. It is used to specify list of exceptions expected from a test method.
  - b. If any of the exceptions mentioned, is thrown by test method, then it will be considered as PASS.
  - c. If none of the exceptions mentioned is thrown, then test method will be considered as FAIL.
  - d. Below test will pass

### 9. singleThreaded: Boolean

- a. It is used to specify that this test method will be executed by only one thread.
- b. It should be used at class level only. It will be ignored if written at method level.

```
@Test(singleThreaded=true)
public class TestCases{
    public void myTestMethod() {
        System.out.println("Hello");
        throw pay ArithmeticException():
```

### 10. threadPoolSize=+ int

- a. It is used to mention number of threads which will invoke this method.
- b. It should be written along with invocationCount.
- c. It is useless if not used with invocationCount.
- d. E.g. @Test(invocationCount=50): This test method will be executed by single thread for 50 times.
- e. E.g. @Test(invocationCount=50, threadPoolSize=5): This test method will be executed by 5 threads 50 times.

```
@Test(invocationCount=50, threadPoolSize=10)
public class TestCases{
    public void myTestMethod() {
        Svstem.out.println("Hello"):
```

## 11. dependsOnMethods=List of methods in String

- a. It is used to create dependency of my test method on another test method/s
- b. It takes list of names of methods separated by comma.
- c. E.g. @Test(dependsOnMethods={"A","B","Test.C"}): This test method is dependent on test methods, "A", "B" and "C" from class Test.
- d. If the method on which my test method is dependent, fails, then my test method will be marked as SKIPPED in testing Report.

- 12. Groups: List of logical groups in String
  - a. It is used to divide test cases in logical groups.
  - b. E.g. @Test(groups={"Smoke"}): My test method belongs to Smoke group.
  - c. To execute test cases belonging to Smoke group, we should write following in testing.xml and execute the xml file.

- 13. dependsOnGroups: List of groups in String separated by comma
  - a. It is used to create dependency of my test method on entire group or groups.
  - b. Group of test cases can be created using 'groups' parameter of @Test
  - c. E.g. @Test(dependsOnGroups={"Smoke","Sanity"})

```
public class A {
     @Test(dependsOnGroups= {"Smoke"})
    public void tc_02() {
          System.out.println("Second Test Case");
     }
     @Test(groups="Smoke")
    public void tc_01() {
```