

# TESTING CHEAT SHEET

TestNG is a test execution framework

## Advantages

- Executing all testcases sequentially
- Parallel testing also possible.
- Data Parameterization is possible.
- TestNG annotation helps to effective test execution.
- Test execution can be controlled using annotation and attributes.
- It gives the ability to produce HTML Reports of execution.
- Retry the failed testcases.
- Cross browser testing is possible

## Attributes

**priority**: Set to prioritize the test method for execution

Default value: 0

**enabled**: Set to ignore the test method for execution

Default value: true

**invocationCount**: Set to run the test method for multiple times

Default value: 1

**invocationtimeOut**: maximum time period provided to the test case for all the invocations count set.

**timeOut**: total time period provided to the test case to completely execute its test case.

**dependsOnMethods**: inject dependency to the test methods

**groups**: to categorize /filter the testcase to excute under specified group

**dependsOnGroups**: inject dependency to the test methods based on the groups to execute

**dataProvider**: set to fetch the data from the excelsheet and to passed as arguments into the test steps

## Annotations

**@BeforeSuite** : The annotated method will be run before all tests in this suite have run.

**@BeforeTest** : The annotated method will be run before any test method belonging to the classes inside the <test> tag is run.

**@BeforeClass** : The annotated method will be run before the first test method in the current class is invoked.

**@DataProvider** : Marks a method as supplying data for a test method.

**@BeforeMethod** : The annotated method will be run before each test method.

**@Test**: Marks a class or a method as part of the test.

**@AfterMethod**: The annotated method will be run after each test method.

**@AfterClass** : The annotated method will be run after all the test methods in the current class have been run.

**@AfterTest** : The annotated method will be run after all the test methods belonging to the classes inside the <test> tag have run.

**@AfterSuite** : The annotated method will be run after all tests in this suite have run.

**@Parameters** : To inject static datas into the testcase

```
@Parameters ({ "url", "username", "password"
})
```

## TestNg xml structure

```
?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite parallel="tests" name="Suite">
  <test thread-count="5" parallel="tests"
    name="chrome">
    <classes>
      <class name="testcase.CreateLead"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
```