TestNG Cheat Sheet

1. Basic Annotations

@BeforeSuite - Runs before all tests in the suite@AfterSuite - Runs after all tests in the suite

@BeforeTest - Runs before any test method in a <test>@AfterTest - Runs after all test methods in a <test>

@ BeforeClass- Runs before first method in the current class@ AfterClass- Runs after all methods in the current class

@BeforeMethod - Runs before each test method@AfterMethod - Runs after each test method@Test - Marks a method as a test method

2. Common @Test Attributes

@Test(priority = 1) - Sets test execution order

@Test(enabled = false) - Disables a test

@Test(dependsOnMethods = {"loginTest"}) - Set dependency on other methods

@Test(groups = {"regression"})
 @Test(invocationCount = 5)
 - Assigns a test to groups
 - Runs the test multiple times
 - Sets max execution time (ms)

@Test(expectedExceptions = Exception.class) - Handles expected exception

3. TestNG XML Structure

```
<suite name="MySuite">
<test name="MyTest">
<classes>
<class name="com.example.MyTestClass"/>
</classes>
</test>
</suite>
```

4. Assertions

Assert.assertTrue(condition)

Assert.assertFalse(condition)

Assert.assertEquals(actual, expected)

Assert.assertNotEquals(actual, expected)

Assert.assertNull(object)

Assert.assertNotNull(object)

5. Grouping Tests

TestNG Cheat Sheet

6. DataProvider

7. Ignore Test

```
@Test(enabled = false)
public void skippedTest() {
  // This test won't run
}
```

8. Parallel Execution

```
<suite name="Suite" parallel="tests" thread-count="2">
  <test name="Test1">
        <classes><class name="TestClass1"/></classes>
        </test>
        <test name="Test2">
              <classes><class name="TestClass2"/></classes>
        </test>
        </test>
```

9. Maven Dependency

TestNG Cheat Sheet

10. Programmatic Suite Run

TestNG testng = new TestNG();
testng.setTestSuites(Arrays.asList("testng.xml"));
testng.run();