Framework Concepts - TestNG API (Continued)

Failing @Test annotated methods

- If any @Test annotated method fails, it will be displayed as failed test in Eclipse IDE Console, TestNG results tab and default TestNG reports
- Demonstrate a program in which the @Test annotated method is failing <u>Demonstrate</u> <u>here</u>

Skipping a test in TestNG

- throw
 - If we want to manually throw any exception based on some condition, we have to use throw -Demonstrate here
 - Syntax: throw new Exception();
 - Exception is the predefined class of Java
- If we want to manually skip any test method in TestNG, we have to use throw Demonstrate here
 - Syntax: throw new SkipException();
 - SkipException is the predefined class of TestNG

TestNG Assertions

- We perform testing to verify whether a particular test is passed or failed.
- In the similar way, TestNG provides a predefined Class 'Assert' and its predefined methods assertEquals(), assertNotEquals(), assertTrue(), assertFalse() and fail() to verify whether @Test annotated methods are passed or failed.

assertEquals()

- Demonstrate a program which uses assertEquals() to verify a failing test -Demonstrate here
- Demonstrate a program which uses assertEquals() to verify a passing test Demonstrate here

assertTrue()

- Demonstrate a program which uses assertTrue() to verify a failing test -Demonstrate <u>here</u>
- Demonstrate a program which uses assertTrue() to verify a passing test -Demonstrate here

assertFalse()

- Demonstrate a program which uses assertFalse() to verify a failing test -Demonstrate here
- Demonstrate a program which uses assertFalse() to verify a passing test Demonstrate here
- fail()
 - Demonstrate a program which fails a test directly Demonstrate here

Parameterizing tests using TestNG's @DataProvider annotation

- We can run a single test using different types of input data using TestNG
 - Example: Login to an Application using User having different roles and permissions. Say Schools website > Admin, Teacher and Student roles.
- <u>@DataProvider(name attribute)</u>
 - and @Test(**dataProvider**="dataProviderMethodName")
 - Demonstrate a program which parameterizes an @Test annotation method by providing name to the @DataProvider annotated method - Demonstrate here