

TestNG

TestNG plays a major role in Test Automation Frameworks Development.

- **Installing TestNG Plug-in in Eclipse IDE**

- Checking that TestNG is not available in Eclipse IDE
- Go to Testng.org > Eclipse > Plug-in Installation > Use the latest URL referred at this location
- Check whether TestNG is installed in Eclipse IDE

- **Configure the Project with TestNG JAR file**

- Create a new Maven Project and execute a sample Selenium Script
- Configure the Project with TestNG (By adding Dependency tags)

- **TestNG Annotations**

- TestNG is an API similar to Java and Selenium WebDriver
- TestNG has a huge list of Annotations and below are few annotations we need to learn for Selenium:
 - Check the annotations list in TestNG API
 - @Test
 - @BeforeMethod
 - @AfterMethod
 - @BeforeTest
 - @AfterTest
 - @BeforeSuite
 - @AfterSuite
 - @BeforeClass
 - @AfterClass
 - And many more
- **@Test**
 - The purpose of this annotation is to represent the methods inside Java class as Tests.
 - This annotation replaces main() method in traditional Java programs - [Demonstrate](#)
 - Run as 'TestNG Test' and view the execution results in both Eclipse IDE Console and TestNG Results tab
 - TestNG Reports
 - Under test-output folder > index.html
 - Refresh the Project and view the TestNG report generated at 'test-output' > old > index.html
 - Passing a Test
 - **Failing @Test annotated methods**

- If any @Test annotated method fails, it will be displayed as failed test in Eclipse IDE Console, TestNG

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default TestNG reports

- Demonstrate a program in which the @Test annotated method is failing - [Demonstrate here](#)
- **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 [here](#)
 - 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](#)
- Demonstrate a program which has multiple @Test testNG annotated tests

- Demonstrate [here](#)

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- A single class can have multiple tests,
 - Create multiple Tests and execute
 - Tests will be executed in alphabetical order
- Demonstrate a program which executes the @Test annotated methods according to their priority - Demonstrate [here](#)
 - **priority** attribute of @Test annotation is used to prioritize the tests
 - @Test(priority=1)
 - Check the priority attribute in TestNG API

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