1. **TestNG:**

**U can control test cases , how they have to run, execution, group**

1. **Install and configure:**

>Testng.org: you can add .jar’s to build path or install testNG plugin for eclipse

> installing Plugin- goto testNG site> eclipse>how to install> copy URL for testNG plugin for eclipse

> Go to eclipse>help>install new soft> paste url in work with>wait>tick testNG>next>next>finish

1. **How to run test without Java compiler**

> Create new java Project

1. Add new package xyz- for storing all java class file

2. Create new class file in xyz package> don’t tick on public static ……..

3. create one public method eg.

**@Test**

**Public void FirstTest()**

**{**

**System.out.println("I am first test case");**

**}**

**@Test**

**Public void SecondTest()**

**{**

**System.out.println("I am second test case");**

**}**

> The @Test adds testNG annotations, any method after @Test will be treated as test case by TestNG

> For above Demo is name for test case

> run as TesNG test o/p test will run

> u can create multiple test cases from single class

1. **Creating TestNG XML file**

>Right click on project >> TestNG>> convert to TestNG

>XML hierarchy :::: test suite>>>test folder>>>test case

**<suite name=” name of suite”>**

**<test name="name of test">**

**<classes>**

**<class name="test.name of class file created in package of java project">**

**</class>**

**</classes>**

**</test>**

**</suite>**

1. **Key points of TestNG**

> you can changes or model the test cases based on functions (viz- mobile brands/tv brands etc) and trigger as we want

> **how to Exclude particular test cases from one class:** As we know method means test case , so we need to exclude that particular method from running syntax in XML as follows

**<suite name=” name of suite”>**

**<test name="name of test">**

**<classes>**

**<class name="test.name of class file created in package of java project">**

**<methods>**

**<exclude name="name of method"></exclude>**

**</methods>**

**</class>**

**</classes>**

**</test>**

**</suite>**

> **how to Include only particular test cases from one class:** as above XML syntax we need only to **add <include name=”name of test case or method”></include>**

**Scenario:** if we have many brands mobiles / washing machine/ tv in single class file and we want only exclude the washing machines of all brands then add **washingmachine.\*** in exclude syntax , Note: in framework naming convention is most important as for washing machines of all brands method name must start with washingmachineXYZ/ABC etc

**>How to add package in TestNG XML:** The Syntax for adding package in TestNG XML as follows which allow to execute all classes and all the test cases/methods from each class when we rung testNG XML as Suite

**<suite name="Name of suite">**

**<test name="Name of test">**

**<packages>**

**<package name="name of package in which all the class files are created"></package>**

**</packages>**

**</test>**

**</suite>**