Using TestNG to Grouping & prioritizing tests

```
package seleniumWithTestNG;
import org.testng.annotations.Test;
public class TestWithPriority {

	@Test(priority = 1)
	public void startEngine() {
		System.out.println("Engine started");
	}
	@Test(priority = 2)
	public void putFirstGear() {
		System.out.println("Car is in first Gear");
	}
	@Test(priority = 3)
	public void putSecondGear() {
		System.out.println("Car is in second Gear");
	}
	@Test(priority = 4)
	public void putThirdGear() {
		System.out.println("Car is in third Gear");
	}
}
```

```
package seleniumWithTestNG;
import org.testng.annotations.Test;
public class GroupTest {
	@Test(groups = { "Apple" })
	public void apple1() {
		System.out.println("Test Apple device 1");
	}

	@Test(groups = { "Apple" })
	public void apple2() {
		System.out.println("Test Apple device 2");
	}

	@Test(groups = { "MI" })
	public void mi1() {
		System.out.println("Test MI device 1");
	}
	@Test(groups = { "MI" })
	public void mi2() {
		System.out.println("Test MI device 2");
	}
	@Test(groups = { "Moto" })
	public void motog1() {
		System.out.println("Test Moto device 1");
	}
	@Test(groups = { "Moto" })
	public void motog2() {
		System.out.println("Test Moto device 2");
	}
	@Test(groups = { "Lenova" })
	public void lenova1() {
		System.out.println("Test Lenova device 1");
	}
	@Test(groups = { "Lenova" })
	public void lenova2() {
		System.out.println("Test Lenova device 2");
	}
}
```

Test Cases Within Groups

```java
package TestCasesWithinGroups;

import org.testng.annotations.Test;

public class DemoOpenCartLogin {

	@Test
	public void DemoOpenLogin() {
		System.out.println("DemoOpenCart User Can able to Login");
	}

	@Test
	public void DemoOpenAdminLoign() {
		System.out.println("DemoOpenCart Admin Can able to Login");
	}

	@Test(groups = { "SmokeTest" })
	public void DemoOpenEmployeeLogin() {
		System.out.println("DemoOpenCart Employee Can able to Login");
	}
}
```

```java
package TestCasesWithinGroups;

import org.testng.annotations.Test;
public class EasyCalLogin {
	@Test
	public void EasyCalculaLogin() {
		System.out.println("EasyCalcula User Can able to Login");
	}

	@Test(groups = { "SmokeTest" })
	public void EasyCalculaAdminLoign() {
		System.out.println("EasyCalcula Admin Can able to Login");
	}

	@Test
	public void EasyCalculaEmployeeLogin() {
		System.out.println("EasyCalcula Employee Can able to Login");
	}
}
```

```java
package TestCasesWithinGroups;

import org.testng.annotations.Test;

public class OrangeHRMLogin {
	@Test(groups = { "SmokeTest" })
	public void OrangeLogin() {
		System.out.println("OrangeHRM User Can able to Login");
	}
	@Test
	public void OrangeAdminLoign() {
		System.out.println("OrangeHRM Admin Can able to Login");
	}
	@Test
	public void OrangeEmployeeLogin() {
		System.out.println("OrangeHRM Employee Can able to Login");
	}
}
```

Xml file in TestNG Looks like Below

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name="Suite">
	<groups>
		<run>
			<include name="SmokeTest" />
		</run>
	</groups>

	<test name="OrangeHRM Login">
		<classes>
			<class name="TestCasesWithinGroups.OrangeHRMLogin" />
		</classes>
	</test>

	<test name="EasyCal Login">
		<classes>
			<class name="TestCasesWithinGroups.EasyCalLogin" />
		</classes>
	</test>

	<test name="DemoOpenCart Login">
		<classes>
			<class name="TestCasesWithinGroups.DemoOpenCartLogin" />
		</classes>
	</test>

</suite>
```

Including Excluding Groups

```
package IncludingExcludingGroups;

import org.testng.annotations.Test;

public class IncludingExcludingDemo {
	@Test(groups = { "Include Group" })
	public void test_case1() {
		System.out.println("This is test case 1");
	}
	@Test(groups = { "Exclude Group" })

	public void test_case3() {
		System.out.println("This is test case 3");
	}
	@Test(groups = { "Include Group" })
	public void test_case2() {
		System.out.println("This is test case 2");
	}
	@Test(groups = { "Exclude Group" })

	public void test_case4() {
		System.out.println("This is test case 4");
	}
}
```

IncludeExclude.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">
<suite name="test_suite">
	<test name="Include and Exclude Group">
		<groups>
			<run>
				<include name="Include Group" />
				<exclude name="Exclude Group" />
			</run>
		</groups>
			<classes>
				<class name="IncludingExcludingGroups.IncludingExcludingDemo" />
			</classes>
	</test>
</suite>
```

Multiple Groups.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name="Suite">

	<test name="Group A">
		<groups>
			<run>
				<include name="Group A" />
			</run>
		</groups>
		<classes>
			<class name="BelongingToMultipleGroups.MultipleGroups" />
		</classes>
	</test>

	<test name="Group B">
		<groups>
			<run>
				<include name="Group B" />
			</run>
		</groups>
		<classes>
			<class name="BelongingToMultipleGroups.MultipleGroups" />
		</classes>
	</test>

</suite>
```

Belonging To Multiple Groups

```java
package BelongingToMultipleGroups;

import org.testng.annotations.Test;

public class MultipleGroups {
	@Test(groups = { "Group A" })
	public void testcase1() {
		System.out.println("Test case1 belonging to Group A");
	}

	@Test(groups = { "Group A", "Group B" })
	public void testcase2() {
		System.out.println("Test case2 belonging to both Group A and Group B");
	}

	@Test(groups = { "Group B" })
	public void testcase3() {
		System.out.println("Test case3 belonging to Group B");
	}
}
```