**Groups in TestNG:**

For example, if you have to run one method (test) from each test case you have prepared as part of smoke testing, you can create a separate TestNG file and include only those methods.

But instead of doing this, you can use groups. In each and every test case, the methods that you want to run as part of smoke testing, mention them they belong to a group.

@Test(groups={“smoke”})

Once we name the methods belong to smoke testing, change the TestNG xml to execute only those methods belong to smoke. After <test> tag add groups section in TestNG xml.

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name=*"Suite"*>

<test thread-count=*"5"* name=*"Test"*>

<groups>

<run>

<include name=*"smoke"*/>

</run>

</groups>

<classes>

<class name=*"TestNGExamples.RadioButtons"*/>

<class name=*"TestNGExamples.CheckBoxes"*/>

<class name=*"TestNGExamples.TextArea"*/>

<class name=*"TestNGExamples.TextBox"*/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->

Even for @BeforeMethod and @AfterMethod and for other annotations also we can use these grouping, if we want to execute these methods as part of execution.

We can also exclude test cases with a group name.

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name=*"Suite"*>

<test thread-count=*"5"* name=*"Test"*>

<groups>

<run>

<exclude name=*"smoke"*/>

</run>

</groups>

<classes>

<class name=*"TestNGExamples.RadioButtons"*/>

<class name=*"TestNGExamples.CheckBoxes"*/>

<class name=*"TestNGExamples.TextArea"*/>

<class name=*"TestNGExamples.TextBox"*/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->