29. How to exclude a particular test group from a test case execution?
- By adding the exclude tag in the testing.xml

```
<groups>
   <run>
       <exclude name="TestGroupNameToExclude"/>
   </run>
</groups>
```

30. What are the different way to produce reports for TestNG results?
- TestNG offers two ways to produce a report
  - Listeners implement the interface **org.testng.testListener** and are notified in real time of when a test starts, passes, fails, etc...
  - Reporters implement the interface **org.testng.reporter** and are notified when all the suites have been run by TestNG.
- The IReporter instance receives a list of objects that describe the entire test run

31. What is the use of @Listener annotation in TestNG?
- configure reports and logging.
- widely used listeners : ITestListener interface.
- It has methods like onTestStart, onTestSucess. onTestFailure, on TestSkipped...
- we should implement this interface creating a listener class of our own,
- Next, we should add the listeners annotation (@Listeners) in the class

32. What Is a Regular Expression, Regexp, or Regex?
- A regular expression is a special text string for describing a search pattern.
- You can think of regular expressions as wildcards on steroids.
- You are probably familiar with wildcard notations such as *.txt to find all text files in a file manager.
- Regex equivalent is.*\.txt.

33. How to write regular expression in testing.xml file to search @Test methods containing "smoke" keyword?
- Regular expression to find @Test method containing keyword "smoke" is a mentioned below

```
<methods>
    <include name=".*smoke.*"/>
</methods>
```

34. What is the time unit we specify in test suites and test cases ?
- We specify the time unit in test suites and test cases is in milliseconds.

35. What is the use of @Test(invocationCount= someInteger)?

```
@Test(invocationCount=10)
Public void testcase(){}
```

- //the invocation count attribute tells how many times TestNG should run a test method

36. What is the use of @Test(threadPoolSize=someInteger)?
- The threadPoolSize attribute tells to from a thread pool to run the test method through multiple threads
- Note: this attribute is ignored if invocation count IS NOT SPECIFIED