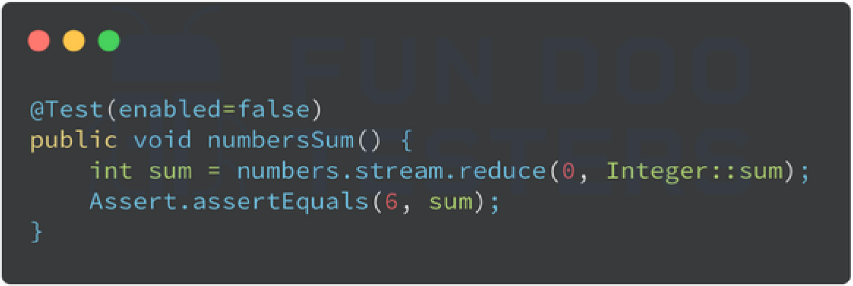
Everything About TestNG

Part 2

Ignoring Tests

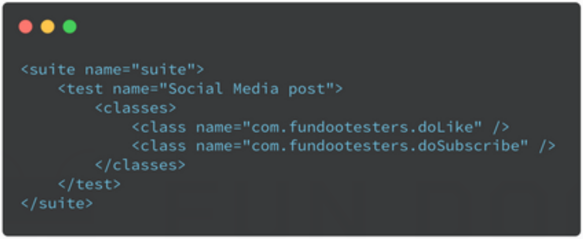
TestNG uses @Test with a parameter “enabled” with a boolean value true or false



```java
@Test(enabled=false)
public void numbersSum() {
    int sum = numbers.stream.reduce(0, Integer::sum);
    Assert.assertEquals(6, sum);
}
```

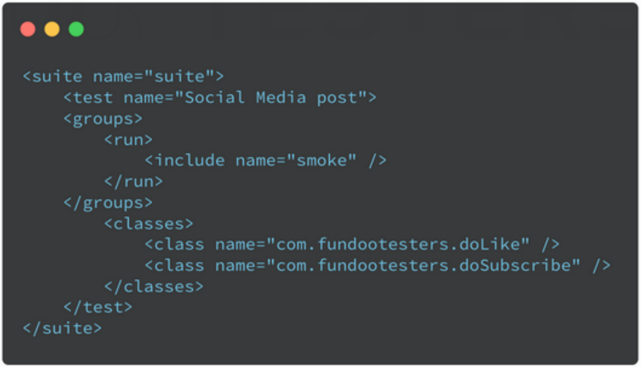
Running tests togather

we can group tests by using an XML file:



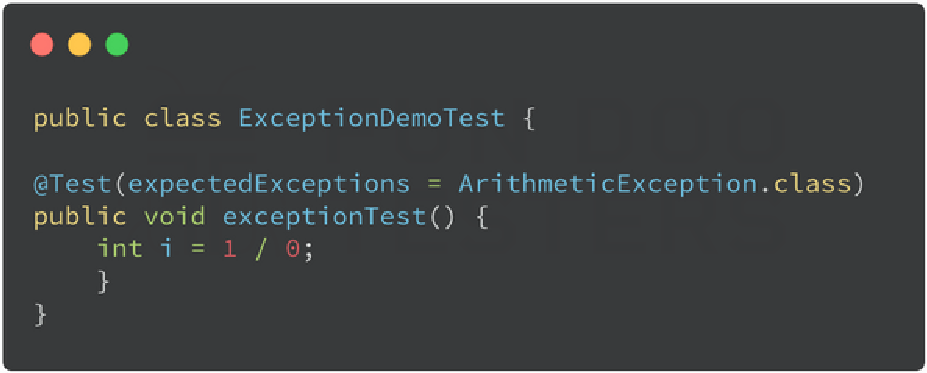
```
<suite name="suite">
    <test name="Social Media post">
        <classes>
            <class name="com.fundootesters.doLike" />
            <class name="com.fundootesters.doSubscribe" />
        </classes>
    </test>
</suite>
```

Use an XML to execute the groups:



```
<suite name="suite">
    <test name="Social Media post">
    <groups>
        <run>
            <include name="smoke" />
        </run>
    </groups>
        <classes>
            <class name="com.fundootesters.doLike" />
            <class name="com.fundootesters.doSubscribe" />
        </classes>
    </test>
</suite>
```

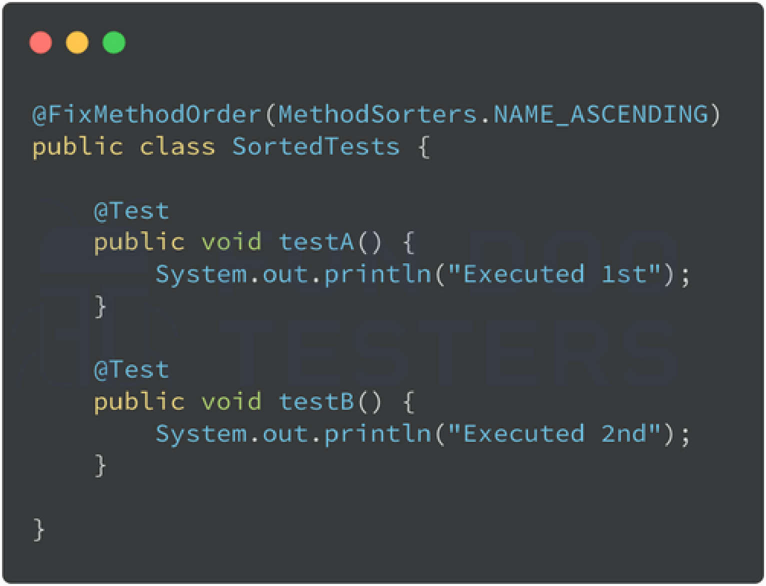
Exceptions Handling



```
public class ExceptionDemoTest {

@Test(expectedExceptions = ArithmeticException.class)
public void exceptionTest() {
     int i = 1 / 0;
     }
}
```

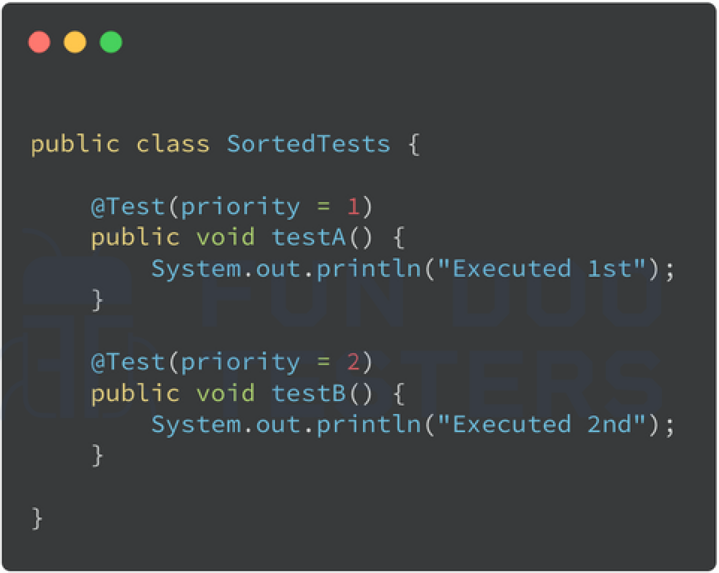
Execution ascending or descending order

There is no defined implicit order in which test methods will get executed in Testng, however sorting can be done using @FixMethodOrder annotation



```
@FixMethodOrder(MethodSorters.NAME_ASCENDING)
public class SortedTests {

    @Test
    public void testA() {
        System.out.println("Executed 1st");
    }

    @Test
    public void testB() {
        System.out.println("Executed 2nd");
    }

}
```

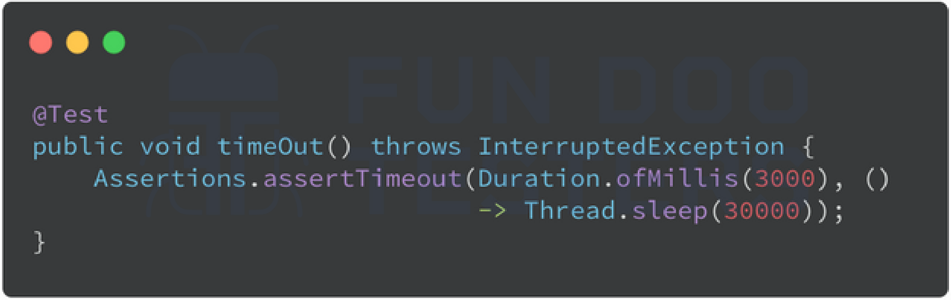
Execution ascending or descending order priority based



```
public class SortedTests {

    @Test(priority = 1)
    public void testA() {
        System.out.println("Executed 1st");
    }

    @Test(priority = 2)
    public void testB() {
        System.out.println("Executed 2nd");
    }

}
```

Timeout Test

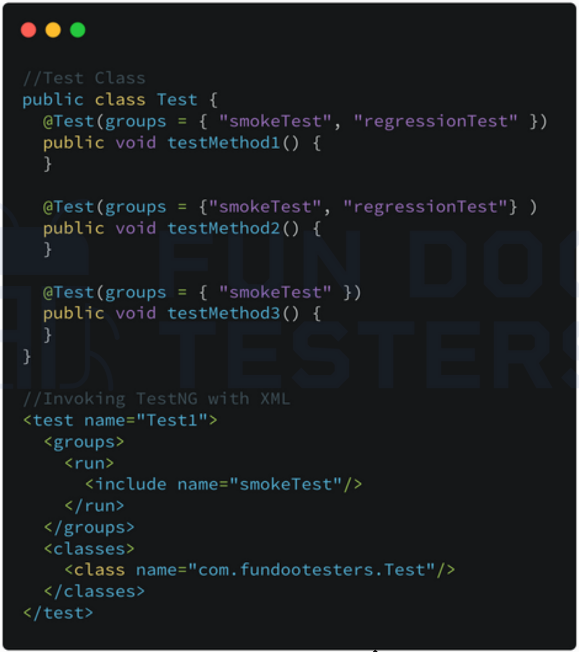
Timed out tests means, a test case should fail if the execution is not completed within a certain specified period.



```
@Test
public void timeOut() throws InterruptedException {
    Assertions.assertTimeout(Duration.ofMillis(3000), ()
                             -> Thread.sleep(30000));
}
```

Test Groups

TestNG allows you to perform sophisticated groupings of test methods. Not only can you declare that methods belong to groups, but you can also specify groups that contain other groups.



```
//Test Class
public class Test {
  @Test(groups = { "smokeTest", "regressionTest" })
  public void testMethod1() {
  }

  @Test(groups = {"smokeTest", "regressionTest"} )
  public void testMethod2() {
  }

  @Test(groups = { "smokeTest" })
  public void testMethod3() {
  }
}

//Invoking TestNG with XML
<test name="Test1">
  <groups>
    <run>
      <include name="smokeTest"/>
    </run>
  </groups>
  <classes>
    <class name="com.fundootesters.Test"/>
  </classes>
</test>
```

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