Week 4 Practice Quiz Test Doubles: Introduction

- 1. If a system under test needs to interact with other systems in order to complete a unit test, just skip the testing.
 - True
 - False
- 2. What do you call lightweight versions of components that a system under test interacts with that are necessary to do unit testing?
 - Dummy Objects
 - Test Doubles
 - Test Stubs
 - Mock Objects
- 3. What do you call the dummy values that are filled into objects that are required as parameters by the system i /1 point under test, but are otherwise irrelevant?
 - Dummy Values
 - Dummy Stubs
 - Dummy Mocks
 - Dummy Objects
- 4. What are the dummy input data sources used by a system under test?
 - Dummy Objects
 - Test Stubs
 - Fake Objects
 - Spy Objects
- 5. What would you use in order to check the indirect results produced by a system under test?
 - Mock Objects
 - Sky Objects
 - Fake Objects
 - Dummy Objects
- 6. There is essentially no difference between spy objects and mock objects.
 - True
 - False

Mock objects are used to check indirect results produced by a system under test whereas spy objects wrap around a real object in order to monitor interactions between the system under test and other objects. While they are 'near' synonyms, they are not quite the same thing.

- 7. The goal of Mockito is to:
 - Automatically generate flakey tests
 - Create test doubles and inspect interactions
 - Assist in doing unit testing in a vacuum

The goal is to create test doubles in java in order to mock away dependencies for unit tests and to inspect interactions between the system under test and mocks.

Test Doubles: Input

1.	When providing test inputs for test doubles, we want to use		_ and	·
	•	Mock objects; Spy objects		
	•	Dummy objects; Mock objects		

- Test stubs; Spy objects
- Dummy objects; Test stubs
- 2. During constructing test doubles, you wish to provide outputs for just a handful of values. What do you use?
 - Dummy Objects
 - Test Doubles
 - Test Stubs
 - Mock Objects

Test stubs would provide outputs for a few values.

- 3. During testing, you find that the unit tests require the use of a computationally expensive database. What could you use as a test double?
 - Test Stubs
 - Fake Objects

Correct Fake objects would replace expensive with cheap (for instance, an in memory database)

- 4. In Mockito, there is a distinction between the roles that a class plays and how you construct it. The roles of a test double are stub, mock, and dummy (or all three). How you construct them in Mockito is the same.
 - True
 - False

Correct Yes; and that construction is a call to mock(Name.class).

Test Doubles: Output

Ι.	provide the ecosystem.
	 Test doubles
	Inputs and outputs
	Side effects
	Mock objects
2.	 Mocks and spies will allow fine grain monitoring of the system under test. True False
3.	Which of the following are not a part of testing interactions using mock objects and spy objects?
	 Methods are being called (or not)
	 Required fill-in values are being created for the system under test
	 Proper parameters are being used for method calls
	Methods are being called in the proper order
	onitoring interactions includes: methods being called in proper order, methods called or t called, and proper parameters to calls are being used.
4.	 objects allow us to observe interactions of fake objectsobjects allow us to observe interactions of real objects. Mock; Dummy Spy; Mock Dummy; Mock Mock; Spy
	Mock objects allow observation of the interaction of fake objects whereas spy objects allow us to observe the interactions of real objects.
5.	In Mockito, there is no capability to override the behavior of methods with a spy object. True False
	You are correct; since you can wrap the method in a spy, you can also override the

6. In Mockito, it is possible to create an object that is both a stub and a mock.

- True
- False