Python Training.....

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Agenda

- Mock

- What Problems They Solve ?

- Mocking in Python ?

- Assignments

Mock

- Mocking enables to create missing objects for designs or reproduce resource heavy objects for testing.

- It reduces coupling between the dependent modules for the purpose of Unit Testing.

- Ways to do Mocking :-
    - Stubs : Provide a canned response to method call.
    - Spy / Fakes : Real objects that behave like normal except when a specific condition is met.
    - Mocks : Verifies behavior (calls) to a method

What Problems Solved?

- Eliminate dependencies in the Class Under Test.

- Test Methods that have no return value.

- Tests error handling.

- Eliminate dependency on Database calls.

- Reduces test complexity.

- Needless to wait for other modules to be completely implemented.

Mock - Python

Python 2.7 : sudo apt-get install python-mock

Python 3.3 : Built-in

In a statically typed language every method in the interface must be stubbed out, even if it is never called, or if the test is not interested in the call.

Python is dynamically typed language and hence there are multiple ways to create Mock Objects.

Python Mock can mimic any other Python class.

Mock module in Python

- constructor for Mock class takes an optional dictionary specifying method names and values to return when that method is called.

- methods that are not specified in constructor return None.