This assignment is about implementing the classes found in today’s lecture.

Given:

Person interface

DiskManager interface

CacheManager interface

How it works:

When asked for person by phone number (this is the getFullName method of the SUT), the system shall

1. If the person is not in either storage mechanism a null will be returned
2. If the person exists in some storage mechanism an instance of the person will be returned
   1. If the person exists in the cache, it will be returned from cache without searching disk
   2. Only if the person does not exist in the cache then search the disk

Implement:

PersonTest class

Details:

1. Implement the PersonTest to ensure the given requirement is met according to the details above with the following test
   * + 1. Create a test that checks that a Person not in the Disk nor the Cache actually does return null from both Disk and Cache. Use verify() method to confirm that the right call were made.
       2. Create a test that checks that a Person in the Cache actually does return the from the Cache. Confirm this by name as well. Use verify() method to confirm that the getPerson() call were made.
       3. Create a test that checks when a Person is not in the Cache but is in the Disk. Use verify() to make sure that the Person class did try looking up from cache.

Deliverables:

Submit your **PersonTest.java** source file on D2L.