Lab 07: UNIT TEST

# Before the Lab

Read the article and watch the videos:

Introduction to unit testing

<http://softwaretestingfundamentals.com/unit-testing/>

Unit Tests in Visual C++ (For C and C++ languages):

<https://www.youtube.com/watch?v=2fxl7zMzfFM>

Python -PyUnit Testing (Python language):

<https://www.youtube.com/watch?v=OjxyDXzq0Hs>

<https://www.youtube.com/watch?v=0Keq3E2bbeE>

Java - JUnit testing (Java):

<https://www.youtube.com/watch?v=I8XXfgF9GSc>

PHP-PHPUnit Testing (PHP):

<https://www.youtube.com/watch?v=Iq6wvboGU-A>

# During the lab

1. Welcome students to the lab.
2. Explain the topic for the lab will be learning what is unit test, the benefits of using unit test and how to write unit test cases.
3. Point them to the posted material on the avenue and ask them to spend 30-40 minutes reviewing and writing a simple unit test case in C, C++, Java, PHP, or Python. If the students are working with a different language, they can ask the TA to approve their working with a unit testing framework for that language.
4. Begin moving through the class asking them questions to ascertain that they have been participating. Record the names of the students that are not present, or not engaged. Please put this information in a google sheet in our google drive 3xa3 folder.
5. Ask them to write a test case for a class or a function related to their project. At this point we are not worried about the quality of the test cases, or their coverage. The main concern is that the students are comfortable with the unit testing technology. When the are done the testing code, ask the students to do a screen shot and commit it to gitlab.