After you finish all the experiment parts (**part A to part D**), you need to answer the corresponding questions in the following report and provide appropriate screenshots and source files to support your answers. Please submit it as a **PDF** file on moodle with the file name of ‘**Assignment3\_yourname\_yourstudentID.pdf**’.

Last but not least, plagiarism is prohibited. Have fun!

**Assignment #3 report**

Student number: **40030143**

Student name: **Jonathan Zlotnik**

Question 1 [0.25%]: For *@Test* **public void letsMockListGet()**, does the commented line

// assertNull(list.get(1)); pass or fail when uncommented? Why? If it fails, how do we make it pass? What is the value of list.get(1)?

Question 2 [0.25%]: Mockito has something called “ArgumentMatchers”. How do they work? There is an example in the test case *@Test* **public void letsMockListGetWithAny()**, which passes when run. How does this work?

Question 3 [0.25%]: Copy the three files above into the same test directory as **Part B**

Observe the three files and run the unit tests in [TodoBusinessImplMockitoTest.java](https://gist.github.com/sophiaquach16/ecf9ac5eec836225bd80c3b99dc55500#file-todobusinessimplmockitotest-java). Describe the interactions.

Question 4 [4%]: Complete the unit tests according to instructions in **part D**. You need to attach screenshots to show that your tests pass, and attach your source code. Do not forget to add your name and student id in the header of your test class ReconciliationServiceTest.

TODO 1= 0.25%

TODO 2 = 0.5%

TODO 3 = 1%

TODO 4= 1%

TODO 5 = 1%

TODO 6 = 0.5%

TOTAL 5% of the course grade.

# 

# Graduate attributes (to be filled by TA)

|  |  |  |  |
| --- | --- | --- | --- |
| Graduate attribute | Description | Score out 100% | Comments |
| [PA-4] Analysis (uncertainty and incomplete knowledge) | Students analyze a problematic situation and propose solutions in scenarios that differ from those seen in class |  |  |
| [UET-1] Ability to use appropriate engineering tools, techniques and resources | Students demonstrate their ability to use a well known mocking framework to test services that are not available |  |  |
| [ITW-4] Delivering results | Deliver results in time and according to instructions |  |  |
| [CO-3] Documentation | The report follows the template proposed. The answer to the questions are well written and the conclusions obtained are well documented |  |  |