**Course: Software Testing**

**Lab 1-Java Refresher and Basics of Unit Testing**

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| --- | --- |
| Group #: |  |
| Student Names: |  |
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**URL of your project in GitHub.com**

www.github.com/…

# Introduction

Provide an introduction to your lab work… and discuss each team member’s experience with Java, OO programming and unit testing, BEFORE doing this lab.

# TODO’s

Note that although some TODO’s are (will be) done in the code environment, we still want students to provide screenshot of their code work on for those TODO’s in the rest of this section.

## TODO1: Development of three other if-code blocks to verify the other three fields in the UserTest class

Provide screenshots of your code work in this section and its execution output, for this TODO. No need for explanation

## TODO2: Testing User class-Refactoring the test-code of constructor’s tests by creating a separate method of it

Provide screenshots of your code and its execution output. No need for explanation

## TODO3: Interpret and explain your understanding of defects in SUT (production-code) and test-code bases

Interpretation and explanation

## TODO4: Developing the other four assertions in the UserTest class

Provide screenshot of your code and its execution output

## TODO5: Developing a test suite named AccountTest class for class Account

Provide screenshot of your code and its execution output

## TODO6: Develop the code for SimpleBankingApp.getBalance()

Provide screenshot of your code and its execution output

## TODO7: Your observations after running and analyzing main() method of SimpleBankingApp

Text… (see the lab document for details)

## TODO8: Developing the testWithdrawals() test method in SimpleBankingAppTest

Provide screenshot of your code and its execution output

# What “technical” skills did you learn in this lab?

Be as precise as possible

Note that the focus here is on “technical” skills. “Soft” skills learned (such as teamwork) shall be discussed in the next sections below.

## “technical” skills learned by student A

## “technical” skills learned by student B

# Teamwork and division of work

Teamwork and division of work

## How the teamwork/effort of the lab was managed and divided

* You can say for example discuss which sections / parts of the lab was done by who…
* And also discuss the meetings that you had to plan and run the lab work
* Etc.

## Writing the lab report

Fill up the following table to specify who wrote what part of the lab document:

|  |  |
| --- | --- |
| **Lab-report section** | **Written by** |
| 1- Introduction | Student A |
| 2-.. |  |
| … |  |

## Lessons learned from your teamwork in this lab

Only include lessons learned from **your teamwork in this section**. **“Technical”** lessons learned **shall be discussed in another section below.**

# Technical difficulties/ challenges encountered, and you overcame them

## Technical difficulties/ challenges encountered

Text…

## How did you overcome the above difficulties/ challenges?

Text…

# Comments/feedback on the lab and lab document itself

This section has the following sub-sections.

## What was your learning experience in the lab?

Text…

## Was the lab document easy to follow?

Text…

## About time budget? (Was there too much/too little time for this lab?)

Text…

## Please provide your comments on how to improve the lab work and lab document

Text…