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| Course | Advanced Software Design – CS525 |
| Assignment | Lab 5 |
| Week | 05 |
| Due | Mar 16, 2020 |
| Student name | Quan Hong Doan |
| Student ID | 986956 |

Online version:

<https://github.com/zithiat/asd/blob/master/labs%20%26%20assignments/Answers/Assignment_CS525_Week04_986956.docx>

**Problem 1**:

Problem 1 is the question a, b, c from the PDF file.

**Answer**:

The online code repository for customer changes is on my GitHub <https://github.com/zithiat/asd/tree/master/codes/code%20for%20labs/lab5/bank>

**Modified class diagram**

A screenshot of a cell phone

Description automatically generated

**Sequence diagram for:**

* First: deposit an amount
* Second: withdraw an amount
* Then: call undo. The undo() call basically will revert the withdraw call in 2nd step into deposit call with same amount from the withdraw call from the commands stack.

A screen shot of a social media post

Description automatically generated

**Problem 2**:

Problem 2 is the question d, e, f from the PDF file.

**Answer**:

The online code repository for customer changes is on my GitHub <https://github.com/zithiat/asd/tree/master/codes/code%20for%20labs/lab5/counter>

Modified class diagram

A screenshot of a cell phone

Description automatically generated

Sequence diagram for:

* Click increment
* Click decrement
* Click undo

A screenshot of a cell phone

Description automatically generated