COMP 346 Coding A2

## Why we chose block synchronization over method synchronization:

Since the processTransaction() method can process different types of transactions such as: Deposit, Withdraw, and Query, it is therefore polyvalent. In other words, one type of transaction should not block the other types of transactions.

Moreover, block synchronization allows for more flexibility and control over the code and the synchronization. Instead of simply locking out the whole method, only a portion of it will be locked out.

Finally, locking only the necessary portion of the code reduces the overhead associated with synchronization. This selective locking mechanism minimizes the time spent in the synchronized state, thereby improving the throughput of the system.