How template was modified

We did not make much modification to the testing template because we found it suitable to our needs. One modification we made was that we included "frontend" into args. We also changed our main function in Quinterac so that it would now take in "frontend ValidAccList.txt TransSum.txt" as input. Hence, if the program were to be run from command line, "java Quinterac frontend ValidAccList.txt TransSum.txt" would need to be entered.

Furthermore, we were unable to run all the tests at the same time using mvn test. The tests failed when ran using mvn test, despite them succeeding when ran individually using mvn -Dtest=<test class>#<test method> test. As such, we wrote a windows batch file to automate the running process. We just need to double click test-all.bat to run all the test cases.

Failure Report

Test Name	What it was testing	How output was wrong	What is the error in the code?	How was the program changed?
R1T8	Whether login can be done in machine mode	The error message was "Please enter a valid transaction code" when it should be "You have logged in"	This is due to the declaration of multiple scanner objects across different classes in the program, resulting in a non-uniform Scanner class and input stream	Created a static Scanner object in the main program so that all subsequent classes can use the same object, resulting in a uniform input stream
R3T2	Whether an account can be created in agent mode	There was an error message from maven, claiming no line found	The input stream in the test code continues to scan for inputs from the original program, even when there are no more inputs passed in the test case	An additional condition on whether there is a nextLine in the input scanner was included in the original program so that the scanner would not keep scanning for inputs.
R3T4	Whether an account number only contains digits	It did not throw an error message	The code did not take that case into account	An additional condition was included to throw the relevant error message
R5T4	Whether deposit equal to 200000 could be successfully executed in machine mode	The error message was "Please enter a valid transaction code" when it should be "Withdraw successfully!"	This was due to the nextInt() method of the Scanner class, which resulted in "\n" being left in the Scanner buffer	Changed nextInt() to nextLine() and converted the string to integer
R6T7	Whether deposit equal to 99999999 could be successfully executed in agent mode	The error message was "Please enter a number between 0 - 99999999:" when it should be "Withdraw successfully!"	In WithdrawMrg class, the amount was set mistakenly to 9,999,999, but it should be 99,999,999	Changed amount <= 9,999,999 to amount <= 99,999,999
R7T5	Whether the transfer amount exceeded 1000000 in machine mode	The error message was wrong, asking the user to enter a number between 0 - 100000 instead of 0 - 1000000	There was a typo in the code	Modified the typo

R7T6	Whether transfer could be successfully executed in machine mode	An extra message - "Please enter a valid transaction code." was printed as well	This was due to the nextInt() method of the Scanner class, which resulted in "\n" being left in the Scanner buffer	Changed nextInt() to nextLine() and converted the string to integer