Failure Report   -- Group17

- **Test script:**

```bash
#!/bin/bash
javac  FrontEnd.java
for  i  in  {1..39}
do
    echo "running test $i"
    java FrontEnd inputs/activeaccts.txt outputs/$i.txt < inputs/$i.txt > outputs/$i.log
done

for  i  in  {1..39}
do
    echo "checking outputs of test $i"
    diff outputs/$i.txt expected/$i.txt
    diff outputs/$i.log expected/$i.log
done
```

- **Detailed Failure Report**

Test Name and Test Number	Test for What	How It Was Wrong	Error in Code	How to Fix
Test 2: Login Command Agent	Login and logout with agent	Showing error: NoSuchElementException	There is no "logout" in the validInput for agent.	Add "logout" to the validInput in loginAgent()
Test 3: Session Verification	No transaction before login	Showing error: NullPointerException	Initialize the log file after login	Initialize the log file before login
Test 10: Create Account Command	No withdraw from new account	Show one more line: Value provided to log is the incorrect amount	Not allowed to write to file when account value = 0.	Change condition split[2].length < 3 && !split[2].equals(0) when checking the length of account.
		Show one more line: Account name provided to log file is incorrect	Not sending second account number to the write file.	Add the second account number "(none)" to the output.
		Can withdraw from the new account	Add the new account to the account list	Delete the line: account.add(new Account(accountNumStr, "0", accountName));

Test 14: Create Invalid New Account	No creating account with invalid name or number	Show one more line: account name provided to log file is incorrect	Send the invalid accountName to writeFile()	In createAcc(), change the && in while condition to ||
		Not allowing to create account name containing space (not at the beginning or end)	Only check if the names are alphanumeric characters	Create nameOK() to check if the name contains other symbols and add it to the condition
Test 15: Delete Account Command	No more transaction with a deleted account	The output does not match the expected at all	Miss brackets inside deleteAcc()	Add missing brackets inside deleteAcc() and delete break; in login()
		Fail to delete account and report	The condition compares a string with a integer and is always false.	Convert number to String first before comparing it to accNumber
		Show one more line: Account name provided to log file is incorrect	Not sending second account number to the write file.	Add the second account number "(none)" to the output.
Test 24: Deposit to an account	No deposit with non-numeric amount	Showing error: NumberFormatException	Not checking if the amount input is numeric	Add method isNumber() to check if a string contains only digits.
Test 30: Withdraw from an account	No withdraw with non-numeric amount	Showing error: NumberFormatException	Not checking it the amount input is numeric	Add method isNumber() to check if a string contains only digits.
Test 32: Withdraw invalid amount from ATM	No more than $1000 can be withdrawn from a single account in a single ATM session	The transaction is successful but it should not.	Not checking if the total withdraw amount is valid	Add attribute withdraw to the Account class for checking if the total amount is over than $1000 and check it before writing output to the file.
Test 38: Transfer to an account	No transfer with non-numeric amount	Showing error: NumberFormatException	Not checking it the amount input is numeric	Add method isNumber() to check if a string contains only digits.