

Assignment #5 – Back Office Unit Testing Report

Team Name: Yes-Men

Member Names: Tony, Tyler, Prad, Armaan

Source Listing

Account Creation method:

```
private static void createAcct(String accountNumber, String accountName) {  
    if (accounts.get(accountNumber) != null) {  
        System.out.println("Failed Constraint Log: a created account must have a new, unused account number");  
        return;  
    }  
    Account tempAccount = new Account(accountNumber, 0, accountName);  
    accounts.put(accountNumber, tempAccount);  
}
```

Analysis

The selected testing method is **statement coverage**.

Statement	String accountNumber	String accountName	Test Cases
1	"oldMasterAccounts.txt"	"mergedTransactionSummary File1.txt"	T1
2	"oldMasterAccounts.txt"	"mergedTransactionSummary File1.txt"	T1
3	"oldMasterAccounts.txt"	"mergedTransactionSummary File1.txt"	T1
4	"oldMasterAccounts.txt"	"mergedTransactionSummary File2.txt"	T2
5	"oldMasterAccounts.txt"	"mergedTransactionSummary File2.txt"	T2

Test Inputs

Test Case 1

mergedTransactionSummaryFile1.txt:

NEW 1234567 000 0000000 jimmy fallon

DEP 7654321 700 0000000 bobby

WDR 7654321 500 0000000 bobby

EOS

EOS

oldMasterAccounts.txt:

7654321 0 bobby

1234567 0 dylan

Test Case 2

mergedTransactionSummaryFile2.txt:

NEW 1111111 000 0000000 jimmy fallon

DEP 7654321 700 0000000 bobby

WDR 7654321 500 0000000 bobby

EOS

EOS

oldMasterAccounts.txt:

7654321 0 bobby

1234567 0 dylan

Test Report

Results of Test Run 1:

Ran successfully with no failures. Statements 1-3 hit. Following message printed to console.

Failed Constraint Log: a created account must have a new, unused account number

This is due to attempting to create an account with the number 1234567 when it already exists in the oldMasterAccounts.txt file.

Results of Test Run 2:

Ran successfully with no failures. Statements 4-5 hit. New account created.