Create Account Test Report

note:

Team members	Hours on Assignment 5	Aspects
Ryan Kerr	5	Test Cases, Coverage Detecting, Reports
Ziping Li	4	Test Cases, Test inputs, Reports
Shihao Lu	3	Source Listing, Test Design, Reports

Source Listing
Function to test:
- execute

Test Cases
Method of white-box testing: **Decision Coverage Testing**

Total Coverage:

CreateAccountAction

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods
● execute(Map, Transaction)		100%		100%	0	2	0	6	0	1
● CreateAccountAction()		100%		n/a	0	1	0	1	0	1
Total	0 of 39	100%	0 of 2	100%	0	3	0	7	0	2

Testcases:

createAccountTest	Tests the case where an account with the given number doesn't already exist, allowing for the account to be successfully created. The branch where an account already exists should not be taken. This test expects the code to complete without issue and for the account to appear in the master account table.
doubleCreate	Tests the case where an account already exists by repeating the same steps as above, but then attempting to create the account again. The branch where an account already exists is taken. This test expects the code to throw an exception.
createNull	(This tests an edge case where the user tries to create the null account. The null account already "exists" so the code should take the pre-existing account branch and should throw an exception.)

Test Inputs

Transaction Summary File, Line Input					Master Accounts File, Line Input
createAccountTest					
NEW	1000000	0	0000000	***	
doubleCreate					
NEW	1000000	0	0000000	***	
NEW	1000000	0	0000000	***	
createNull					
NEW	0000000	0	0000000	***	

Test Report

Test Case	If pass before fix	Problam found	Fix	If pass after fix
createAccountTest	passed	Nothing	Nothing	passed
doubleCreate	passed	Nothing	Nothing	passed
createNull	passed	Nothing	Nothing	passed