Assignment 3: Failure Report

Descriptions on how you modified the template to conduct the testing. If you propose a different approach than the template, explain how you did that and justify why.

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```
# prepare program parameters
sys.argv = [
    'frontend.py',
    valid_account_list_file,
    transaction_summary_file]
```
  - Changed from 'app.py'

Compile a report of each failure observed, noting which test failed, what it was testing, and what was wrong about its output.
Fix each of the observed failures, note in the failure report what actions or changes were made to address it. For example, if the test input itself was wrong, you would write in the report that you removed or fixed the test input. If your program was wrong, you would write in the report what the error in your code was and how you changed the program to fix it

Test number	Test Description	What was wrong about output	How you fixed it
R2 All tests	Validating format of valid_accounts_list file	Assertions all failed because I forgot to actually validate formatting in the code itself	Added check to make sure file is formatted properly in code
R2 All tests	Validating format of valid_accounts_list file	FileNotFound Error when trying to open temporary valid_accounts_list file created	Forgot to add global scoping in main method so I fixed that

		in test helper method	
All Tests	Test all of front-end	Main program runs on a loop until user exists manually EOFError when parsing input due to running out of inputs in infinite loop Also affects infinite while loop until user enters a valid session type	Caught the exception and exited when it happens
R2T5	Making sure files end with special end of file account number	Original input was '0000001' and it hit the 'account number starting with zero' error before the one I was trying to test	Changed account number to '1000000' in test case
R4T1	Not allowing createacct when in machine mode	Forgot to add a variable "session_type" into the global scope so it wasn't updated when the user chose 'machine'	Added session_type to global tag at start of createAccount()
R7T2	Not allowing createacct to create an account number of the wrong length.	"Enter new account number:", 'Account numbers must be exactly 7 digits' outputs were merged together due to lack of newline character after input.	Added new line call, when retrieving inputs.
R9T1	Successful creation of account	Transaction list was not defined	Added session to access transaction list: "session.transactions~"
R15T3	Reject withdrawals that have exceeded $5000 in a single day	Invalid number of parameters in function call	Added a default value

R17T2	Check for valid account number	Even if the account is in the list, never is equal	Cast both existing accounts and current account number to int
R15T1	Reject withdrawals over $1000 in ATM mode	Checks daily amount first	Moved the daily check to after the single amount check
All tests		Expected tail output group outputs together	Added newline into input and print statements
R18T1	Rejects transfers above $10000 in ATM mode	Incorrectly sectioned if statement for checking for ATM or Agent	Made if statement clarify true limit (added brackets)
R18T3	Reject transfers that have exceeded $10000 in a single day from a single account	Error in checking past transactions, incorrect variable set-up and different format vs deposit/withdraw	Added If statement to account for "XFR"'s unique format
R19T1	Check if a user is able to transfer money from one account to another	Automatically enabled until we have a functioning database full of accounts and their balances	Waiting
R20T8	Check that the amount exists in the specified account	Automatically enabled until we have a functioning database full of accounts and their balances	Waiting