

CISC 327 Assignment 1

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Notes:

- Some tests end in EOF instead of logout. This is because the program is prompting the user for input and it might not read logout as the logout command, rather it would read it as an account number or something along those lines

login:

Test Tlogin1: login command, ATM case

Input tlogin1in.txt:

login

machine

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin1out.txt:

Empty or possibly information messages in response to commands

Possible message saying logout successful

Test Tlogin2: login command, agent case

Input tlogin2in.txt:

login

agent

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin2out.txt:

Empty or possibly information messages in response to commands

Possible message saying logout successful

Test Tlogin3: login command

Input tlogin3in.txt:

login

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin3out.txt:

Empty or possibly information messages in response to commands

Possible message saying logout successful

Test Tlogin4: No subsequent login commands accepted after login

Input tlogin4in.txt:

login

machine

login

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin4out.txt:

Empty or possibly information messages in response to commands
Possible message saying login or command is not valid
Possible message saying logout successful

Test Tlogin5: Garbage string (E.G. typo)

Input tlogin5in.txt:

login (Or other random string)

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin5out.txt:

Empty or string prompting user for login command or message saying it is not a valid command

Test Tlogin6: logout before login

Input: tlogin6in.txt:

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin6out.txt:

Empty or string prompting user for login command or message saying it is not a valid command

Test Tlogin7: createacct isn't accepted before login command

Input tlogin7in.txt:

createacct

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin7out.txt:

Empty or string prompting user for login command or message saying it is not a valid command

Test Tlogin8: Deposit command isn't accepted before login

Input tlogin8in.txt:

deposit

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin8out.txt:

Empty or string prompting user for login command or message saying it is not a valid command

Test Tlogin9: deleteacct isn't accepted before login command

Input tlogin9in.txt:

deleteacct

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin9out.txt:

Empty or string prompting user for login command or message saying it is not a valid command

Test Tlogin10: Transfer command isn't accepted before login

Input tlogin10in.txt:

transfer

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin10out.txt:

Empty or string prompting user for login command or message saying it is not a valid command

Test Tlogin11: withdraw command isn't accepted before login

Input tlogin11in.txt:

withdraw

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin11out.txt:

Empty or string prompting user for login command or message saying it is not a valid command

Test Tlogin12: login works after logout

Input tlogin12in.txt:

login
machine
logout
login
EOF

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin12out.txt:

Possible message saying logout successful

Possible string prompting user for other commands after login

Test Tlogin13: Check that login prompts the user to enter a type of session

Input tlogin13in.txt:

login

EOF

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogin13out.txt:

Message asking user for type of session

logout:

Test Tlogout1: logout works after login

Input tlogout1in.txt:

login

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogout1out.txt:

Possible message saying logout successful

Test Tlogout2: no transactions other than login should be accepted after a logout

Input tlogout2in.txt:

login

logout

createacct

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogout2out.txt:

Possible message saying logout successful

Message saying invalid command

Test Tlogout3: no transactions other than login should be accepted after a logout

Input tlogout3in.txt:

login

logout

deleteacct

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogout3out.txt:

Possible message saying logout successful

Message saying invalid command

Test Tlogout4: no transactions other than login should be accepted after a logout

Input tlogout4in.txt:

login

logout

deposit

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogout4out.txt:

Possible message saying logout successful

Message saying invalid command

Test Tlogout5: no transactions other than login should be accepted after a logout

Input tlogout2in.txt:

login

logout

withdraw

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogout5out.txt:

Possibly string prompting user for other commands

Possible message saying logout successful

Message saying invalid command

Test Tlogout6: no transactions other than login should be accepted after a logout

Input tlogout6in.txt:

login

logout

transfer

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output tlogout6out.txt:

Possibly string prompting user for other commands

Possible message saying logout successful

Message saying invalid command

createacct:

Test Tcreateacct1: Make sure createacct command works to prompt for acct #

Input tcreateacct1in.txt:

login
agent
createacct
EOF

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct1out.txt

Prompt user for account #

Test Tcreateacct2: Make sure createacct prompts user properly for acct name

Input tcreateacct2in.txt:

login
agent
createacct
[random valid acct# -eg. 1234567]
EOF

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct2out.txt

Prompt user for account number

Prompt user for account name

Test Tcreateacct3: Make sure createacct works correctly with legal parameters

Input tcreateacct3in.txt:

login
agent
createacct
1234567 [random valid acct#]
xyz [random valid acct name]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file
NEW 1234567 000 0000000 xyz
EOS

Terminal output: tcreateacct3out.txt
Prompt user for account number
Prompt user for account name
Message about created account
Possible message saying logout successful

Test Tcreateacct4: Make sure createacct doesn't work in machine mode

Input tcreateacct4in.txt:

login
machine
createacct
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct4out.txt
Error explaining improper privileges
Possible message saying logout successful

Test Tcreateacct5: Make sure createacct doesn't accept account # starting with 0

Input tcreateacct5in.txt:

login
agent
createacct
0000000
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct5out.txt
Prompt user for account number
Error explaining improper acct#
Possible message saying logout successful

Test Tcreateacct6: Make sure createacct doesn't accept account # of improper length

Input tcreateacct6in.txt:

login
agent

createacct
[acct # of length > 7 eg.12345678]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct6out.txt:

Prompt user for account number
Error explaining improper acct#
Possible message saying logout successful

Test Tcreateacct7: Make sure createacct doesn't accept account # of improper length

Input tcreateacct7in.txt:

login
agent
createacct
[acct # of length < 7 eg.12345]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct7out.txt:

Prompt user for account number
Error explaining improper acct#
Possible message saying logout successful

Test Tcreateacct8: Make sure createacct doesn't accept account # with non-numeric characters

Input tcreateacct8in.txt:

login
agent
createacct
[non-numeric acct#]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct8out.txt:

Prompt user for account number
Error explaining improper acct#
Possible message saying logout successful

Test Tcreateacct9: Make sure createacct doesn't accept account name of improper length (too short)

Input tcreateacct9in.txt:

login
agent
createacct
[valid acct #]
a
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct9out.txt:

Prompt user for account number
Prompt user for account name
Error explaining improper acct name
Possible message saying logout successful

Test Tcreateacct10: Make sure createacct doesn't accept account name of improper length (too long)

Input tcreateacct10in.txt:

login
agent
createacct
[valid acct#]
[alphanumeric string length 31]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct10out.txt:

Prompt user for account number
Prompt user for account name
Error explaining improper acct name
Possible message saying logout successful

Test Tcreateacct11: Make sure createacct doesn't accept account name of non-alphanumeric characters

Input tcreateacct11in.txt:

login
agent
createacct
[valid acct#]
[non-alphanumeric string]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct11out.txt:

Prompt user for account number
Prompt user for account name
Error explaining improper acct name
Possible message saying logout successful

Test Tcreateacct12: Make sure createacct doesn't accept existing acct#

Input tcreateacct12in.txt:

login
agent
createacct
1234567 [existing acct number]
logout

Input files: valid accounts file with an account number 1234567

Output files: transaction summary file with only EOS

Terminal output: tcreateacct12out.txt:

Prompt user for account number
Error explaining that acct # exists
Possible message saying logout successful

Test Tcreateacct13: Make sure createacct doesn't accept acct name starting with space

Input tcreateacct13in.txt:

login
agent
createacct
[valid acct#]
[string of 3 <= length <= 30 beginning with a space]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct13out.txt

Prompt user for account number

Prompt user for account name

Error explaining that acct name is invalid

Test Tcreateacct14: Make sure createacct doesn't accept acct name ending with space

Input tcreateacct14in.txt:

login

agent

createacct

[valid acct#]

[string of 3 <= length <= 30 ending with a space]

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tcreateacct14out.txt

Prompt user for account number

Prompt user for account name

Error explaining that acct name is invalid

Possible message saying logout successful

Test Tcreateacct15: Test the transaction summary when creating an account

Input tcreateacct15in.txt:

login

agent

createacct

1234567 [valid acct#]

xyz[valid acct name]

logout

Input files: valid accounts file with no accounts

Output files: transaction summary file

NEW 1234567 000 0000000 xyz

EOS

Terminal output: tcreateacct15out.txt

Prompt user for account number

Prompt user for account name

Message saying account was created

Possible message saying logout successful

Test Tcreateacct16: Test the transaction summary when creating an account with EOF

Input tcreateacct16in.txt:

```
login
agent
createacct
1234567 [valid acct#]
xyz[valid acct name]
EOF
```

Input files: valid accounts file with no accounts

Output files: transaction summary file

```
NEW 1234567 000 0000000 xyz
EOS
```

Terminal output: tcreateacct16out.txt

```
Prompt user for account number
Prompt user for account name
Message saying account was created
```

Test Tcreateacct17: Test that no transactions occur on a newly created account

Input tcreateacct17in.txt:

```
login
agent
createacct
1234567 [valid acct#]
xyz [valid acct name]
deposit
1234567
logout
```

Input files: valid accounts file with no accounts

Output files: transaction summary file

```
NEW 1234567 000 0000000 xyz
EOS
```

Terminal output: tcreateacct17out.txt

```
Prompt user for account number
Prompt user for account name
Message saying account was created
Prompt user for account number
Message saying account can't be used yet
Possible message saying logout successful
```


deleteacct:

Test Tdeleteacct1: make sure deleteacct only works in agent mode

Input tdeleteacct1in.txt:

login
machine
deleteacct
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct1out.txt

Message explaining improper privileges
Possible message saying logout successful

Test Tdeleteacct2: make sure deleteacct works in agent mode

Input tdeleteacct2in.txt:

login
agent
deleteacct
EOF

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct2out.txt

Message prompting user for account number to delete

Test Tdeleteacct3: make sure deleteacct doesnt accept nonexistant acc number

Input tdeleteacct3in.txt:

login
agent
deleteacct
1234567 [valid but nonexistant account number]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct3out.txt

Message prompting user for account number to delete
Message saying account number doesnt exist
Possible message saying logout successful

Test Tdeleteacct4: make sure deleteacct doesnt accept invalid acc number(too long)

Input tdeleteacct4in.txt:

```
login
agent
deleteacct
12345678 [invalid account number]
logout
```

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct4out.txt

```
Message prompting user for account number to delete
Message saying invalid account number
Possible message saying logout successful
```

Test Tdeleteacct5: make sure deleteacct doesnt accept invalid acc number(too short)

Input tdeleteacct5in.txt:

```
login
agent
deleteacct
123456 [invalid account number]
logout
```

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct5out.txt

```
Message prompting user for account number to delete
Message saying invalid account number
Possible message saying logout successful
```

Test Tdeleteacct6: make sure deleteacct doesnt accept invalid acc number(begins with 0)

Input tdeleteacct6in.txt:

```
login
agent
deleteacct
0123456 [invalid account number]
logout
```

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct6out.txt

Message prompting user for account number to delete
Message saying invalid account number
Possible message saying logout successful

Test Tdeleteacct7: make sure deleteacct doesnt accept invalid acc number(contains symbol)

Input tdeleteacct7in.txt:

login
agent
deleteacct
012%456 [invalid account number]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct7out.txt

Message prompting user for account number to delete
Message saying invalid account number
Possible message saying logout successful

Test Tdeleteacct8: make sure deleteacct accepts valid acc number and prompts for account name

Input tdeleteacct8in.txt:

login
agent
deleteacct
1123456 [valid account number]
EOF

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct8out.txt

Message prompting user for account number to delete
Message prompting user for account name

Test Tdeleteacct9: make sure deleteacct doesnt accept invalid acc name(too short)

Input tdeleteacct9in.txt:

login
agent
deleteacct
1234567 [valid and existing account number]

a [invalid account name]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct9out.txt

Message saying prompting user for account number
Message prompting user for account name
Message saying account name is invalid
Possible message saying logout successful

Test Tdeleteacct10: make sure deleteacct doesnt accept invalid acc name(too long)

Input tdeleteacct10in.txt:

login
agent
deleteacct
1234567 [valid and existing account number]
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa [invalid account name]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct10out.txt

Message prompting user for account number
Message prompting user for account name
Message saying account name is invalid
Possible message saying logout successful

Test Tdeleteacct11: make sure deleteacct doesnt accept invalid acc name(Name contains symbols)

Input tdeleteacct11in.txt:

login
agent
deleteacct
1234567 [valid and existing account number]
aaaa%%aaaaaa [invalid account name]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct11out.txt

Message prompting user for account number

Message prompting user for account name
Message saying account name is invalid
Possible message saying logout successful

Test Tdeleteacct12: make sure deleteacct doesnt accept invalid acc name(starts with a space)

Input tdeleteacct12in.txt:

login
agent
deleteacct
1234567 [valid and existing account number]
_aaaa [invalid account name]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct12out.txt

Message prompting user for account number
Message prompting user for account name
Message saying account name is invalid
Possible message saying logout successful

Test Tdeleteacct13: make sure deleteacct doesnt accept invalid acc name(ends with a space)

Input tdeleteacct13in.txt:

login
agent
deleteacct
1234567 [valid and existing account number]
aaaa_ [invalid account name]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeleteacct13out.txt

Message prompting user for account number
Message prompting user for account name
Message saying account name is invalid
Possible message saying logout successful

Test Tdeleteacct14: make sure deleteacct deletes account

Input tdeleteacct14in.txt:

login
agent
deleteacct
1234567 [valid account number]
xyz [valid account name]
logout

Input files: valid accounts file with at least 1 account

Output files: transactions file

DEL 1234567 000 0000000 xyz
EOS

Terminal output: tdeleteacct14out.txt

Message prompting user for account number
Message prompting user for account name
Message saying account has been deleted
Possible message saying logout successful

Test Tdeleteacct15: check that deleteacc command does not work on deleted acc

Input tdeleteacct15in.txt:

login
agent
deleteacct
1234567 [valid account number]
xyz [valid account name]
deleteacct
1234567 [valid account number]
logout

Input files: valid accounts file with at least 1 account

Output files: transactions file

DEL 1234567 000 0000000 xyz
EOS

Terminal output: tdeleteacct15out.txt

Message prompting user for account number to delete
Message prompting user for account name
Message saying accounthas been deletec
Message prompting user for account number to delete
Message saying the account number is invalid
Possible message saying logout successful

Test Tdeleteacct16: check that deposit command does not work on deleted acc

Input tdeleteacct16in.txt:

```
login
agent
deleteacct
1234567 [valid account number]
xyz [valid account name]
deposit
1234567 [valid account number]
logout
```

Input files: valid accounts file with at least 1 account

Output files: transactions file

```
DEL 1234567 000 0000000 xyz
EOS
```

Terminal output: tdeleteacct16out.txt

```
Message prompting user for account number to delete
Message prompting user for account name
Message saying account has been deleted
Message prompting the user for account number to deposit
Message saying the account number is invalid
Possible message saying logout successful
```

Test Tdeleteacct17: check that withdraw command does not work on deleted acc

Input tdeleteacct17in.txt:

```
login
agent
deleteacct
1234567 [valid account number]
xyz [valid account name]
withdraw
1234567 [valid account number]
logout
```

Input files: valid accounts file with at least 1 account

Output files: transactions file

```
DEL 1234567 000 0000000 xyz
EOS
```

Terminal output: tdeleteacct17out.txt

```
Message prompting user for account number to delete
Message prompting user for account name
```

Message saying account has been deleted
Message prompting the user for account number to withdraw from
Message saying the account number is invalid
Possible message saying logout successful

Test Tdeleteacct18: check that transfer(from) command does not work on deleted acc

Input tdeleteacct18in.txt:

login
agent
deleteacct
1234567 [valid account number]
xyz [valid account name]
transfer
1234567 [valid account number]
logout

Input files: valid accounts file with at least 1 account

Output files: transactions file

DEL 1234567 000 0000000 xyz
EOS

Terminal output: tdeleteacct18out.txt

Message prompting user for account number to delete
Message prompting user for account name
Message saying account has been deleted
Message prompting the user for account number to transfer from
Message saying the account number is invalid
Possible message saying logout successful

Test Tdeleteacct19: check that transfer(to) command does not work on deleted acc

Input tdeleteacct19in.txt:

login
agent
deleteacct
1234567 [valid account number]
xyz [valid account name]
transfer
7777777[valid account number]
Transfer
1234567 [valid account number]
logout

Input files: valid accounts file with at least 1 account

Output files: transactions file

DEL 1234567 000 0000000 xyz

EOS

Terminal output: tdeleteacct19out.txt

Message prompting user for account number to delete

Message prompting user for account name

Message saying account has been deleted

Message prompting the user for account number to transfer from

Message prompting the user for account number to transfer to

Message saying the account number is invalid

Possible message saying logout successful

Test Tdeleteacct20: Test that EOF will save the transaction properly

Input tdeleteacct20in.txt:

login

agent

deleteacct

1234567 [valid account number]

xyz [valid account name]

EOF

Input files: valid accounts file with at least 1 account

Output files: transactions file

DEL 1234567 000 0000000 xyz

EOS

Terminal output: tdeleteacct20out.txt

Message prompting user for account number

Message prompting user for account name

Message saying account has been deleted

Deposit:

Test Tdeposit1: Make sure deposit works in machine mode

Input tdeposit1in.txt:

login

machine

deposit

EOF

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tdeposit1out.txt

Message prompting user for account number

Test Tdeposit2: Makes sure deposit works in agent mode

Input tdeposit2in.txt:

login

agent

deposit

EOF

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: tdeposit2out.txt

Message prompting user for account number

Test Tdeposit3: Checks that deposit prompts the user for account number

Input tdeposit3in.txt:

login

Machine

deposit

EOF

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit3out.txt

Message prompting user for account number

Test Tdeposit4: Checks that deposit prompts the user for deposit amount

Input tdeposit4in.txt:

login

machine

deposit

1234567 [valid and existing account number]

EOF

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit4out.txt

Message prompting user for account number

Message prompting user for deposit amount

Test Tdeposit5: Deposits above \$1000 are rejected for machine

Input tdeposit5in.txt:

login
machine
deposit
1234567 [valid and existing account number]
100100 [invalid deposit amount]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit5out.txt

Message prompting user for account number
Message saying invalid deposit amount
Possible message saying logout successful

Test Tdeposit6: Deposits with non-numerical symbols are rejected

Input tdeposit6in.txt:

login
Machine
deposit
1234567 [valid and existing account number]
999A9 [invalid deposit amount]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit6out.txt

Message prompting user for account number
Message saying invalid deposit amount
Possible message saying logout successful

Test Tdeposit7: Deposits valid amount in a valid account

Input tdeposit7in.txt:

login
Machine
deposit
1234567 [valid and existing account number]
99999 [valid deposit amount]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file:

DEP 1234567 99999 0000000 ***
EOS

Terminal output: tdeposit7out.txt

Message prompting user for account number
Message prompting user for deposit amount
Message saying transaction has been completed
Possible message saying logout successful

Test Tdeposit8: Account number is invalid to perform a deposit transaction (too short)

Input tdeposit8in.txt:

login
Machine
deposit
123456 [invalid account number]
logout

Input files: invalid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit8out.txt

Message prompting user for account number
Message saying invalid account number
Possible message saying logout successful

Test Tdeposit9: Account number is invalid to perform a deposit transaction (too long)

Input tdeposit9in.txt:

login
Machine
deposit
12345678 [invalid account number]
logout

Input files: invalid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit9out.txt

Message prompting user for account number
Message saying invalid account number
Possible message saying logout successful

Test Tdeposit10: Account number is invalid to perform a deposit transaction (starts with 0)

Input tdeposit10in.txt:

login
Machine
deposit
0123456 [invalid account number]
logout

Input files: invalid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit10out.txt

Message prompting user for account number
Message saying invalid account number
Possible message saying logout successful

Test Tdeposit11: Account number is invalid to perform a deposit transaction
(non-existing account)

Input tdeposit11in.txt:

login
Machine
deposit
7654321 [non-existing account number]
logout

Input files: invalid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit11out.txt

Message prompting user for account number
Message saying non-existing account number
Possible message saying logout successful

Test Tdeposit12: Account number is invalid to perform a deposit transaction
(non-numerical symbols)

Input tdeposit12in.txt:

login
Machine
deposit
12#4567 [invalid account number]
logout

Input files: invalid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit12out.txt

Message prompting user for account number
Message saying invalid account number
Possible message saying logout successful

Test Tdeposit13: Deposits above \$999,999.99 are rejected for agent

Input tdeposit13in.txt:

login
Agent
deposit
1234567 [valid account number]
100000000 [invalid deposit amount]
logout

Input files: invalid accounts file with at least 1 account

Output files: transaction summary file with only EOS

Terminal output: tdeposit13out.txt

Message prompting user for account number
Message prompting user for deposit amount
Message saying invalid deposit amount
Possible message saying logout successful

Test Tdeposit14: Deposits valid amount in a valid account for agent

Input tdeposit14in.txt:

login
Agent
deposit
1234567 [valid and existing account number]
99999999 [valid deposit amount]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file:

DEP 1234567 99999999 0000000 ***
EOS

Terminal output: tdeposit14out.txt

Message prompting user for account number
Message prompting user for deposit amount
Message saying transaction has been completed
Possible message saying logout successful

Test Tdeposit15: EOF creates transaction summary file

Input tdeposit15in.txt:

login
agent
1234567 [valid and existing account number]
deposit
99999999 [valid deposit amount]
EOF

Input files: valid accounts file with at least 1 account

Output files: transaction summary file:

DEP 1234567 99999999 0000000 ***
EOS

Terminal output: tdeposit15out.txt

Message prompting user for account number
Message prompting user for deposit amount
Message saying transaction has been completed

withdraw:

Test Twithdraw1: ensure withdraw works in machine mode

Input twithdraw1in.txt:

login
machine
withdraw
1234567 [valid acct#]
50000 [Valid amount]
logout

Input files: valid accounts file with at least 1 account

Output files: transaction summary file

WDR 1234567 50000 0000000 ***
EOS

Terminal output: twithdraw1out.txt

Prompt user for account number
Prompt user for withdraw amount
Possible message saying logout successful

Test Twithdraw2: ensure withdraw works in agent mode

Input twithdraw2in.txt:

login
agent

withdraw
1234567 [valid acct#]
50000 [Valid amount]
logout

Input files: valid accounts file with at least one account

Output files: transaction summary file

WDR 1234567 50000 0000000 ***
EOS

Terminal output: twithdraw2out.txt

Prompt user for account number
Prompt user for withdraw amount
Possible message saying logout successful

Test Twithdraw3: ensure proper handling of invalid acct # (starts with 0)

Input twithdraw3in.txt:

login
machine
withdraw
0000000
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: twithdraw3out.txt

Prompt user for account number
Invalid acct# message
Possible message saying logout successful

Test Twithdraw4: ensure proper handling of invalid acct # (too short)

Input: twithdraw4in.txt:

login
machine
withdraw
[acct# of length < 7, eg.123]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: twithdraw4out.txt

Prompt user for account number
Invalid acct# message (after entering acct#)

Possible message saying logout successful

Test Twithdraw5: ensure proper handling of invalid acct # (too long)

Input: twithdraw5in.txt:

login
machine
withdraw
[acct# of length > 7, eg.12345678]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: twithdraw5out.txt

Prompt user for account number
Invalid acct# message (after entering acct#)
Possible message saying logout successful

Test Twithdraw6: ensure proper handling of invalid acct # (non-numeric)

Input: twithdraw6in.txt:

login
machine
withdraw
[acct# that is non-numeric]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: twithdraw6out.txt

Prompt user for account number
Invalid acct# message (after entering acct#)
Possible message saying logout successful

Test Twithdraw7: ensure proper handling of invalid acct # (does not exist)

Input: twithdraw7in.txt:

login
machine
withdraw
[acct# that does not exist]
logout

Input files: valid accounts file with no accounts

Output files: transaction summary file with only EOS

Terminal output: twithdraw7out.txt

Prompt user for account number

Invalid acct# message (after entering acct#)

Possible message saying logout successful

Test Twithdraw8: ensure function rejects withdrawals > \$1,000 in machine mode

Input: twithdraw8in.txt:

login

machine

withdraw

[valid acct#]

[invalid amount, > 100000]

logout

Input files: valid accounts file with at least one account

Output files: transaction summary file with only EOS

Terminal output: twithdraw8out.txt

Prompt the user for account number

Prompt the user for withdraw amount

Invalid withdrawal amount message

Possible message saying logout successful

Test Twithdraw9: ensure function rejects withdrawals > \$1,000 in a single session in machine mode

Input: twithdraw9in.txt:

login

machine

withdraw

1234567

50000 [amount x]

withdraw

1234567

60000 [amount y]

logout

//where $x + y > \$1,000$

Input files: Valid accounts file with at least one account

Output files: transaction summary file

WDR 1234567 50000 0000000 ***

EOS

Terminal output: twithdraw9out.txt

Prompt user for account number
Prompt user for withdraw amount
Message saying withdraw successful
Prompt user for account number
Prompt user for withdraw amount
Invalid amount message (after second transaction)
Possible message saying logout successful

Test Twithdraw10: ensure function rejects withdrawals \geq \$1,000,000 in agent mode

Input: twithdraw10in.txt:

login
agent
withdraw
[valid acct#]
[amount \geq 100,000,000]
logout

Input files: valid accounts file with at least one account

Output files: transaction summary file with only EOS

Terminal output: twithdraw10out.txt

Prompt user for account number
Prompt user for withdraw amount
Invalid amount message
Possible message saying logout successful

Test Twithdraw11: Check transaction summary is filled after EOF

Input: twithdraw11in.txt:

login
agent
withdraw
1234567 [valid acct#]
50000 [valid amount]
EOF

Input files: valid accounts file with at least one account

Output files: transaction summary file

WDR 1234567 50000 0000000 ***
EOS

Terminal output: twithdraw11out.txt

Prompt user for account number
Prompt user for withdraw amount

Message saying withdraw successful

transfer:

Test Ttransfer1: Test that transfer works in machine mode

Input ttransfer1in.txt:

login
machine
transfer
EOF

Input files: valid accounts file with no accounts

Output files: transactions file with EOS

Terminal output: ttransfer1out.txt

Prompt user for acc number to transfer from

Test Ttransfer2: Test that transfer works in agent mode

Input ttransfer2in.txt:

login
agent
Transfer
EOF

Input files: valid accounts file with no accounts

Output files: transactions file with EOS

Terminal output: ttransfer2out.txt

Prompt user for acc number to transfer from

Test Ttransfer3: Test that first acc number exists

Input ttransfer3in.txt:

login
agent
transfer
1234567 [nonexistant account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer3out.txt

Prompt user for acc number to transfer from

Message saying account number is invalid

Possible message saying logout successful

Test Ttransfer4: Test that first acc number is valid (too short)

Input ttransfer4in.txt:

login
agent
transfer
123456 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer4out.txt

Prompt user for acc number to transfer from
Message saying account number is invalid
Possible message saying logout successful

Test Ttransfer5: Test that first acc number is valid (too long)

Input ttransfer5in.txt:

login
agent
transfer
12345678 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer5out.txt

Prompt user for acc number to transfer from
Message saying account number is invalid
Possible message saying logout successful

Test Ttransfer6: Test that first acc number is valid (start with 0)

Input ttransfer6in.txt:

login
agent
transfer
0345678 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer6out.txt

Prompt user for acc number to transfer from
Message saying account number is invalid
Possible message saying logout successful

Test Ttransfer7: Test that first acc number is valid (contains symbols)

Input ttransfer7in.txt:

login
agent
transfer
123%567 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer7out.txt

Prompt user for acc number to transfer from
Message saying account number is invalid
Possible message saying logout successful

Test Ttransfer8: Test that second acc number exists

Input ttransfer8in.txt:

login
agent
transfer
7777777 [valid account number]
1234567 [nonexistant account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer8out.txt

Prompt user for acc number to transfer from
Prompt the user for acc number to transfer to
Message saying account number is invalid
Possible message saying logout successful

Test Ttransfer9: Test that second acc number is valid(too short)

Input ttransfer9in.txt:

login
agent
transfer

7777777 [valid account number]
123456 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer9out.txt

Prompt user for acc number to transfer from
Prompt the user for acc number to transfer to
Message saying account number is not valid
Possible message saying logout successful

Test Ttransfer10: Test that second acc number is valid(too long)

Input ttransfer10in.txt:

login
agent
transfer
7777777 [valid account number]
12345678 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer10out.txt

Prompt user for acc number to transfer from
Prompt the user for acc number to transfer to
Message saying account number is not valid
Possible message saying logout successful

Test Ttransfer11: Test that second acc number is valid(starts with 0)

Input ttransfer11in.txt:

login
agent
transfer
7777777 [valid account number]
0234567 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer11out.txt

Prompt user for acc number to transfer from

Prompt the user for acc number to transfer to
Message saying account number is not valid
Possible message saying logout successful

Test Ttransfer12: Test that second acc number is valid(non numeric)

Input ttransfer12in.txt:

login
agent
transfer
7777777 [valid account number]
123%567 [invalid account number]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer12out.txt

Prompt user for acc number to transfer from
Prompt the user for acc number to transfer to
Message saying account number is not valid
Possible message saying logout successful

Test Ttransfer13: Test that user is prompted for amount

Input ttransfer13in.txt:

login
agent
transfer
7777777 [valid account number]
1234567 [valid account number]
EOF

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer13out.txt

Prompt user for acc number to transfer from
Prompt the user for acc number to transfer to
Prompt the user for amount to transfer

Test Ttransfer14: Test that amount to transfer is valid amount(numeric)

Input ttransfer14in.txt:

login
agent

transfer
7777777 [valid account number]
1234567 [valid account number]
% [invalid transfer amount]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer14out.txt

Prompt user for acc number to transfer from
Prompt the user for acc number to transfer to
Prompt the user for amount to transfer
Message saying amount is invalid
Possible message saying logout successful

Test Ttransfer15: Test that amount to transfer is valid amount (above limit)

Input ttransfer15in.txt:

login
machine
transfer
7777777 [valid account number]
1234567 [valid account number]
100001 [invalid transfer amount]
logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer15out.txt

Prompt user for acc number to transfer from
Prompt the user for acc number to transfer to
Prompt the user for amount to transfer
Message saying amount is invalid
Possible message saying logout successful

Test Ttransfer16: Test transfer works (machine)

Input ttransfer16in.txt:

login
machine
transfer
7777777 [valid account number]
1234567 [valid account number]

9999 [valid transfer amount]

logout

Input files: valid accounts file with at least two accounts

Output files: transactions file

XFR 7777777 9999 1234567 ***

EOS

Terminal output: ttransfer16out.txt

Prompt user for acc number to transfer from

Prompt the user for acc number to transfer to

Prompt the user for amount to transfer

Message saying transfer is successful

Possible message saying logout successful

Test Ttransfer17: Test that amount to transfer is valid amount (agent, above limit)

Input ttransfer17in.txt:

login

agent

transfer

7777777 [valid account number]

1234567 [valid account number]

100000000 [invalid transfer amount]

logout

Input files: valid accounts file with at least two accounts

Output files: transactions file with EOS

Terminal output: ttransfer17out.txt

Prompt user for acc number to transfer from

Prompt the user for acc number to transfer to

Prompt the user for amount to transfer

Message saying transfer amount is too much

Possible message saying logout successful

Test Ttransfer18: Test transfer works (agent)

Input ttransfer18in.txt:

login

agent

transfer

7777777 [valid account number]

1234567 [valid account number]

99999999 [valid transfer amount]

logout

Input files: valid accounts file with at least two accounts

Output files: transactions file

XFR 7777777 99999999 1234567 ***

EOS

Terminal output: ttransfer18out.txt

Prompt user for acc number to transfer from

Prompt the user for acc number to transfer to

Prompt the user for amount to transfer

Message saying transfer is successful

Possible message saying logout successful

Test Ttransfer19: Test that transaction summary works after EOF

Input ttransfer19in.txt:

login

agent

transfer

7777777 [valid account number]

1234567 [valid account number]

50000 [valid transfer amount]

EOF

Input files: valid accounts file with at least two accounts

Output files: transactions file

XFR 7777777 50000 1234567 ***

EOS

Terminal output: ttransfer19out.txt

Prompt user for acc number to transfer from

Prompt the user for acc number to transfer to

Prompt the user for amount to transfer

Message saying transfer is successful

Test Ttransfer20: Test that user is prompted for first account number

Input ttransfer20in.txt:

login

agent

transfer

EOF

Input files: valid accounts file with no accounts

Output files: transactions file with EOS

Terminal output: ttransfer20out.txt

Prompt user for first account number

Test Ttransfer21: Test that user is prompted for second account number

Input ttransfer21in.txt:

login

agent

transfer

1234567 [valid account number]

EOF

Input files: valid accounts file with at least 1 account

Output files: transactions file with EOS

Terminal output: ttransfer21out.txt

Prompt the user for first account number

Prompt the user for second account number

Test Plan Document

Each test will be a separate txt file. The names of each file are mentioned in the test documentation. The test files will be separated into separate folders by the feature they are testing, as they are separated in this document.

Each test will produce an output file and this output file will be put in a separate folder from the tests.

The output files will also be sorted into different folders by the feature they tested. They will be named based on the input file, either the same name, or they will change the last 2 letters of the file, "in", to "out". This is for actual output.

We will have a third folder for the expected output files. These are the output files that are specified in this document. We will create those and sort them in the same way as we sorted the input files.

There will be a fourth and fifth folder containing the transaction summary files. The fourth folder will contain the actual transaction summaries from the test cases and will be sorted in the same way as the rest of the files. The fifth folder will contain our handmade, expected transaction summary files and they will also be sorted in the same way. We will have another batch script to compare these 2 folders or we will use the same checking batch script for both sections.

To run the input files, and determine the correctness of the output files automatically, we will create a batch script. The batch script will run every input file in a folder and compare it with every output file in another folder. There may be 2 different batch files, one for running input files and another for checking correctness of output files.

The files will be checked automatically by comparing the expected output with the actual output. Since the actual output might change between writing the test cases and testing them, we will need to determine what the correct output is once we actually have the program up and running. Once we know the true output, we will change the expected output accordingly. Right now we have a general idea of what output we should expect so we will make the expected output files using that information. This information is visible in the terminal output section of each test in this document.

To compare with future runs, a document with tests that returned an error will be made. Future runs will check that these errors are fixed and that no new errors have been revealed. Future runs will run every test again and each result will be checked again. This is to ensure that errors have been fixed and that no new errors have popped up.

Other Requirements

There was no mention about whether the program would accept lowercase and uppercase. We decided to allow only lowercase commands. Uppercase can be added in future and tested if needed but it does not change functionality.

There was no mention about how input was to be entered. We decided that each input would be on a separate line after a prompt from the program. For example, deleting an account requires an account number and an account name. The user would be prompted for the account number, which they would enter, and then the user would be prompted for the account name which they would enter. The final result would look like this.

```
[deleteacct]
"Please enter your account number"
[1234567]
"Please enter your account name"
[asdfghj]
```

There was no mention about what should happen if the program reaches EOF before it has logged out. We decided that the program would initiate a logout command if the program is logged in when the file ends. Any commands that are interrupted by this command, by not having a complete set of instructions, should halt and not affect anything in the transactions.

Commands that affect accounts and transactions will only be treated as complete once they reach the end of the command stream. (Once all prompts have been accepted and the program prints a validation message). This is to prevent commands that are interrupted from breaking something.

There was no mention of where logout would be an acceptable command. We decided that it would be acceptable as a new command, and when the user is prompted for a session type (after they type login). In other situations the user must finish their current transaction before typing logout.