Test for Bank

TEST NAME	TEST DESC	EXPECTED	ACTUAL	COMMENTS
Test for Bank	Check registered Bank name	Bank name equal to the name entered	Same as expected	

Test for BankManager

Test for BankManager	Test addBank(Name) function with Bank name entered	addBank() be able to add the Bank into the BankList	Same as expected	
Test for BankManager	Test getBank(Name) function with Bank name entered	getBank() can return a list of all Bank	Same as expected	

Test for Stock

Test for Stock	Test Stock() function with the stockCode, price and volume entered	When new stock is created, Stock() can set the stockCode, price and volume of class Stock equal to that new stock.	Same as expected	
-----------------------	---	--	------------------	--

Test for StockManager

Test for StockManager	Test addStock() function	Created a new stock and if that stock does not exist, or already exist but have no price, addStock() wil be able to add the stock into the StockList	Same as expected	
Test for StockManager	Test addStock() function	Created a new stock and if that stock already exists with name and price, addStock() will add the volume to that stock.	Same as expected	

Test for StockManager Test getStock(stockCode) function	getStock() can return a list of all stock which has the stockCode equal to the stockCode entered	Same as expected	
---	--	------------------	--

Test for Exchange

Test for Exchange	Create and check stock manager, bank manager and log manager is empty or not	BankManager, StockManager, LogManager exists	Same as expected	
Test for Exchange	Check it belong for their class or not	BankManager, StockManager, LogManager belong with their class	Same as expected	

Test for LogManager

Test for addlog() in logList	Compare with another log already have in log list	Return new logList	Same as expected	
Test for getbanktransa ction() in logList	Test getBankTransac tion()	List of bank transactions is returned	Same as expected	

Test for Log

Test for WindowManager

Test for signup functionality

1. Bank access sign up screen

Test method: open the program, input nothing at the login prompt

Expected: Program displayed prompt for user to login

Actual: Program displayed prompt for user to login

2. Bank can sign up with a username

Test method: at sign up screen, input a username

Expected: Program displayed signed up successfully

Actual: Program displayed signed up successfully

3. Bank cannot sign up with an existing username

Test method: use an already signed up username upon signing up

Expected: Program displayed that bank already exist

Actual: Program displayed that bank already exist

4. Bank can go back to login screen from signup screen

Test method: input nothing at the signup screen

Expected: Login screen is displayed

Actual: Login screen is displayed

5. Bank can login using the new account

Test method: login using the signed-up username

Expected: login successfully Actual: login successfully

Test for login functionality

1. Bank can login

Test method: login using an existing account

Expected: login successfully Actual: login successfully

2. Ask for retry if wrong username is input

Test method: try logging in using a new username that is not registered

Expected: prompt that username does not match any registered bank and ask for login

again

Actual: prompt that username does not match any registered bank and ask for login

again

Test for main menu functionality

1. Trade option working

Test method: input 1 at the main menu screen

Expected: trade menu is displayed

Actual: trade menu is displayed

2. Your asset option working

Test method: input 2 at the main menu screen

Expected: Asset screen is displayed

Actual: asset screen is displayed

3. Your invoice option working

Test method: input 3 at the main menu screen

Expected: invoice screen is displayed

Actual: invoice screen is displayed

4. Transaction log option working

Test method: input 4 at the main menu screen

Expected: transaction log screen is displayed

Actual: transaction log screen is displayed

5. Financial report option working

Test method: input 5 at the main menu screen

Expected: financial report screen is displayed

Actual: financial report screen is displayed

6. Exchange inventory option working

Test method: input 9 at the main menu screen

Expected: inventory screen is displayed

Actual: inventory screen is displayed

7. Exit option working

Test method: input 0 at the main menu screen

Expected: the program terminates and clear the screen

Actual: the program terminates and clear the screen

Test for Trade Menu functionality

1. Back option working

Test method: input 0 at trade menu screen

Expected: main menu screen is displayed

Actual: main menu screen is displayed

2. Stock code displaying best prices

Test method: insert different prices for the same stock inside jsonsaved.json file

Expected: only the lowest price is displayed

Actual: only the lowest price is displayed

3. Only unique stock code is displayed

Test method: insert in multiple different stock codes inside jsonsaved.json along with existing stock codes

Expected: no same stock code is displayed

Actual: no same stock code is displayed

4. User can choose a stock code

Test method: input in a stock code displayed in the menu

Expected: trade screen for the chosen stock is displayed

Actual: trade screen for the chosen stock is displayed

5. User chose a non-existing stock

Test method: choose a stock not displayed in the menu

Expected: user prompted to choose from the listed option

Actual: user prompted to choose from the listed option

Test for Buy Menu

1. Buy option working

Test method: input 1 at buy menu

Expected: program prompt user to enter a price

Actual: program prompt user to enter price

2. 10 best prices is displayed in ascending order

Test method: insert in different prices for the same stock inside jsonsaved.json file

Expected: 10 lowest price is displayed in an ascending order

Actual: 10 lowest price is displayed in an ascending order

3. User can buy

Test method: input a suitable price and volume

Expected: program promted for successful transaction

Actual: program promted for successful transaction

4. Quote option working

Test method: input 2 at the buy menu

Expected: program prompt user to enter a price and return a quote accordingly

Actual: program prompt user to enter a price and return a quote accordingly

5. Back option working

Test method: input 0 at buy menu Expected: trade menu is displayed

Actual: trade menu is displayed

Test for Assets screen

1. Assets are displayed correctly

Test method: insert stock for the bank inside jsonsaved.json

Expected: the inserted stock is displayed Actual: the inserted stock is displayed

Test for Invoice screen

1. All stock purchases are displayed and fees are calculated

Test method: use the buy menu to buy stock multiple times

Expected: the invoice screen shows all successful buys along with fees that matches the calculations

Actual: the invoice screen shows all successful buys along with fees that matches the calculations

Test for Transaction Logs

1. All logs are saved and displayed

Test method: try to buy and quote stock using the trade menu

Expected: the transaction logs show all logs that corresponds to what was bought and quoted

Actual: the transaction logs show all logs that corresponds to what was bought and quoted

Test for Exchange Report

1. All banks are displayed and values are displayed according the saved data

Test method: login using different banks and buy multiple stocks

Expected: all banks are displayed and credit score is displayed according to what was purchased, fees are calculated accordingly

Actual: all banks are displayed and credit score is displayed according to what was purchased, fees are calculated accordingly

Test for Exchange inventory

1. All stocks inside the exchange are displayed

Test method: insert stock data inside jsonsaved.json

Expected: the data is displayed Actual: the data is displayed