

## Testing log

Unit testing individual classes:

Note: When testing constructors, a test function was made to display the inputs.

The same is true for functions that don't input any values but rather store them.

To test the inputs generic values were used like 1 or "test".

When inputting obj I wrote the obj name then obj I didn't do this in the test I just putted it in the test logs so it would be easier to read.

Class Transaction

Function	input	Excepted output	output
constructor	1 , 2	12	12
display	1,2	12	12

Class Order

Function	input	Excepted output	output
constructor	1,1,true	Cancelled 11	Cancelled 11
match	null	true	true
cancel	null	cancel	cancel
is Filled	null	True	True
getIsBuyOrder	null	True	true
Add Transaction	Transaction	1	1

Note: For the add transaction function it adds the quantity variable of the transaction object to the filledQuantity variable of the order object, so the test just shows the filledQuantity value.

Class stock

Function	input	Excepted output	output
Constructor	"test" 1	test 1	Test 1
Get Price	null	1 (since the constructor has inputed 1)	1
Insert order	Inserted order obj	true	1
Match order	Order obj	true	1
display	"test" 1	Test - 1	Test - 1

Note:

For the insert order function, a test was made where if the order obj is in the buyOrders vector the function would return true.

For the match order function, a test was made for when the order is not filled the function would return true.

Class member

Function	input	Excepted output	output
constructor	"password","name","phone","email", "status","type"	password name phone email	password name phone email

		status type	status type
getwatchlist	Watchlist obj in which "name" is in watchlist	name	name
addstock	Stock put in function with stock have string "test"	test	test
removestock	Same stock as before	null	null
displaywatchlist	Nothing since it is a void function	Name's watchlist Test - 1	Name's watchlist Test - 1

Class limit order

Function	input	Excepted output	output
constructor	stock obj 1 1 true	stocktext 1 1 1 true	stocktext 1 1 1 true
match	Obj order	true	true
bidprice	Null	1 (since the stock price is 1)	1

Class stop order

Function	input	Excepted output	output
constructor	Stock obj 1,1, true	stocktext 1 1 1 true	stocktext 1 1 1 1
match	Order obj	1(since function just return true)	1

### Organised input/output testing:

Note: The input output questions were based on some of the user story's

1. As a user, I want to be able to login into the system using email and password. If the password is not correct, or email does not exist, I should get an error message, indicating user credentials are incorrect.

	Goal	input	Excepted output	output
Test1:	Incorrect password	NotPassword	email or password is incorrect, please input again	email or password is incorrect, please input again
Test2:	Non existed email	nonemail@gamil.com	email or password is incorrect, please input again	email or password is incorrect, please input again

2. As a trader, I want to be able to withdraw money from my account

	Goal	input	Excepted output	output
Test1:	Withdrawn money	Press withdraw button	Withdrawn money	Withdrawn Money

3. As a trader, I want to be able to buy or sell stocks with market order, i.e buy or sell a stock at the market's current best available price.

	Goal	input	Excepted output	output
Test1:	Buy stock	Press buy stock button with stock selected	Stock has been brought	Stock has been brought
Test2:	Sell stock	Press sell stock button with stock selected	Stock has been sold	Stock has been sold