Class	Stock

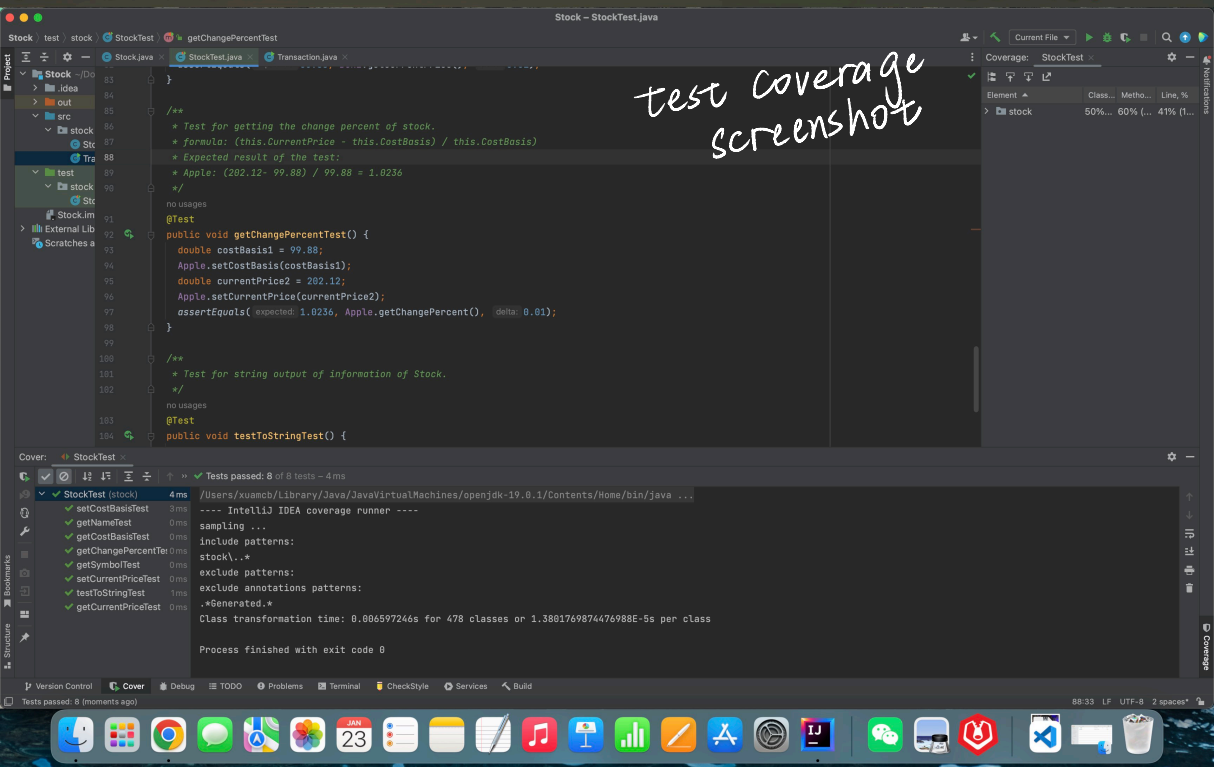| Responsibility	Collaborator
Stores the symbol, name, cost basis, current price of the stock Contains the method of getting above information, setting the cost basis and current price, calculating the change percent, and getting formatted string information of the stock.	Transition

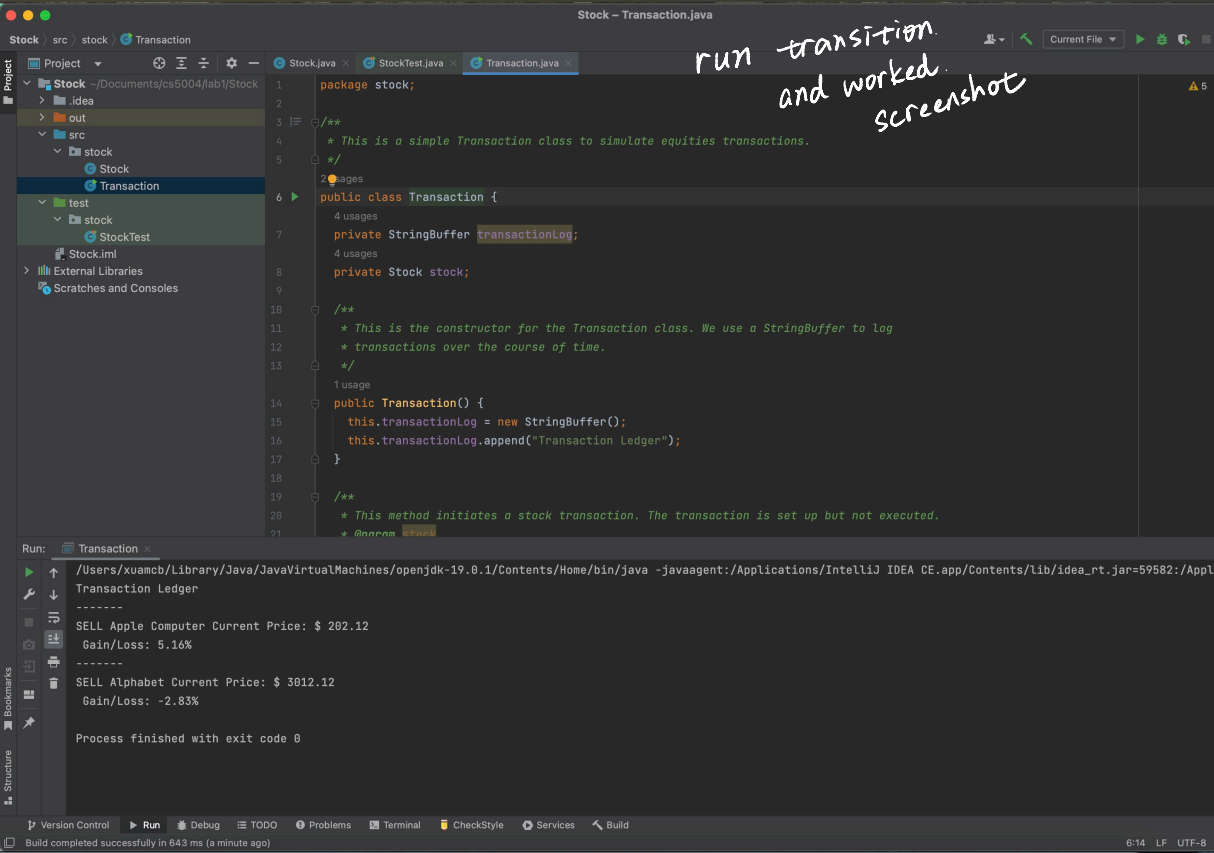| Class	Transition
Responsibility	**Collaborator**
Stores the transition log	Stock
Contains the method to initiate, cancel, executes, format to string(returns the log of transition), entry point of the stock transition	

test coverage screenshot

```java
        }

        /**
         * Test for getting the change percent of stock.
         * formula: (this.CurrentPrice - this.CostBasis) / this.CostBasis
         * Expected result of the test:
         * Apple: (202.12- 99.88) / 99.88 = 1.0236
         */
        @Test
        public void getChangePercentTest() {
            double costBasis1 = 99.88;
            Apple.setCostBasis(costBasis1);
            double currentPrice2 = 202.12;
            Apple.setCurrentPrice(currentPrice2);
            assertEquals( expected: 1.0236, Apple.getChangePercent(), delta: 0.01);
        }

        /**
         * Test for string output of information of Stock.
         */
        @Test
        public void testToStringTest() {
```

Coverage: StockTest

Element	Class,...	Metho...	Line, %
stock	50%...	60% (...	41% (1...

Cover: StockTest

Tests passed: 8 of 8 tests — 4 ms

```
/Users/xuancb/Library/Java/JavaVirtualMachines/openjdk-19.0.1/Contents/Home/bin/java ...
---- IntelliJ IDEA coverage runner ----
sampling ...
include patterns:
stock\..*
exclude patterns:
exclude annotations patterns:
.*Generated.*
Class transformation time: 0.006597246s for 478 classes or 1.380176987476988E-5s per class

Process finished with exit code 0
```

StockTest (stock)   4ms
  setCostBasisTest   3ms
  getNameTest   0ms
  getCostBasisTest   0ms
  getChangePercentTe...   0ms
  getSymbolTest   0ms
  setCurrentPriceTest   0ms
  testToStringTest   1ms
  getCurrentPriceTest   0ms

Tests passed: 8 (moments ago)

Stock › src › stock › Transaction

Current File

run transition.
and worked.
screenshot

⚠ 5

Stock.java   StockTest.java   Transaction.java

```java
package stock;

/**
 * This is a simple Transaction class to simulate equities transactions.
 */
public class Transaction {

    private StringBuffer transactionLog;

    private Stock stock;

    /**
     * This is the constructor for the Transaction class. We use a StringBuffer to log
     * transactions over the course of time.
     */
    public Transaction() {
        this.transactionLog = new StringBuffer();
        this.transactionLog.append("Transaction Ledger");
    }

    /**
     * This method initiates a stock transaction. The transaction is set up but not executed.
     * @param stock
```

Project
- Stock ~/Documents/cs5004/lab1/Stock
  - .idea
  - out
  - src
    - stock
      - Stock
      - Transaction
    - test
      - stock
        - StockTest
  - Stock.iml
- External Libraries
- Scratches and Consoles

Run: Transaction

```
/Users/xuamcb/Library/Java/JavaVirtualMachines/openjdk-19.0.1/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=59582:/Appl
Transaction Ledger
-------
SELL Apple Computer Current Price: $ 202.12
    Gain/Loss: 5.16%
-------
SELL Alphabet Current Price: $ 3012.12
    Gain/Loss: -2.83%


Process finished with exit code 0
```

Version Control   Run   Debug   TODO   Problems   Terminal   CheckStyle   Services   Build

Build completed successfully in 643 ms (a minute ago)

6:14   LF   UTF-8