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Compile the Program in the file as: javac -cp "postgresql-42.2.18.jar;." team12.java

Run the Program using the driver file:

java -cp "postgresql-42.2.18.jar;." team12 abc123 password

where abc123 is your class3 user name, and password is the password

You then will get prompted: Are you an admin? (y/n)

This will then direct you to login and password. It has unlimited attempts and base admin login and password are “admin” and “root”. It then will display a text based interface based on if you are an admin or a customer if logged in. Type in the corresponding number to what you want to do and you will be prompted as needed.

Many, but not all inputs are checked for correctness but SQL injection is prevented in all operations with PreparedStatements.

Transaction atomicity is provided by begin-end blocks in the SQL functions. Most operations are done as SQL functions or procedures, including buying, selling, and updating share prices, so the concurrency problems outlined in the assignment pdf should not happen.

Improvements could be made to the program, particularly in handling bad input and edge cases. However SQL exceptions are caught and printed in all operations, so the program should keep running after printing the stack trace.