https://github.com/RobG5150/ser321-spring2023-C-Rjgonz14
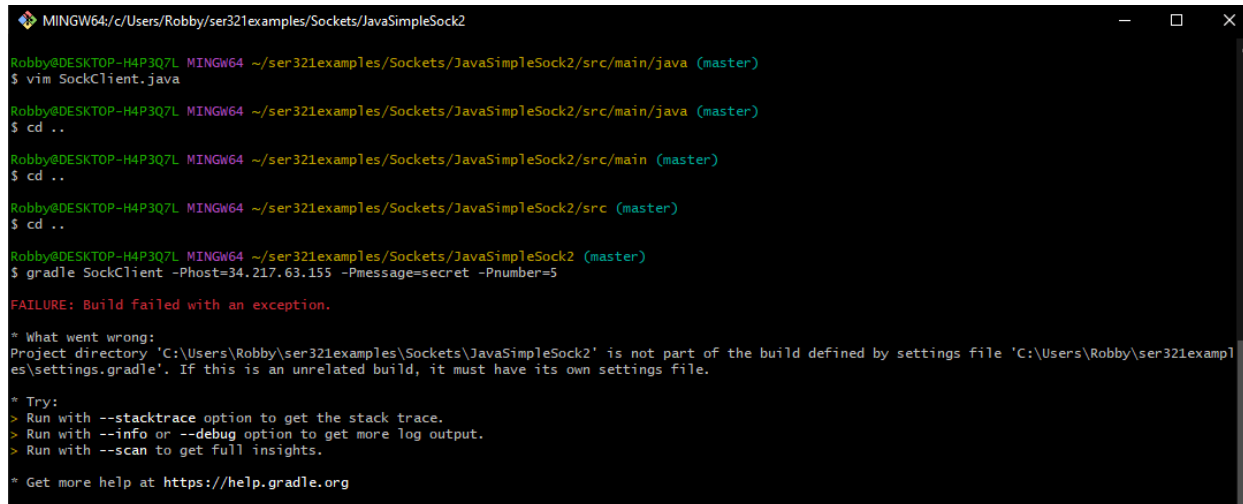
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SER 321

Dr. Mehlhase

Assignment 1 part 1

i. Command line tasks using Git on Windows 10 OS

1. Git Cmd line: mkdir cli_assignment
2. cd cli_assignment
3. touch stuff.txt
4. cat >> stuff.txt (then I added three lines of text following. I then pressed CTRL + D to return to the command prompt)
5. cat stuff.txt
6. cat >> stuff.txt (then once done adding lines CTRL + D)
7. mkdir draft
8. mv stuff.txt draft
9. cd draft **THEN** touch .secret.txt (to create hidden file in new draft directory)
10. cd .. (to ensure that draft and final are on the same level)
    a. mdir final
    b. cp -r draft final
11. mv draft draft.remove
12. mv draft.remove final
13. ll
14. zcat NASA_access_log_Aug95.gz
15. Gzip
16. Mv Nasa   logs.txt
17. Mv logts.txt cli_assignment
18. Cd cli_assignment
    a. Head -100 logs.txt
19. Head -100 logs.txt > logt_top_100.txt
20. Cat logs_top_100.txt
21. Tail -100 logs.txt > logs_bottom_100.txt
22. Cat logs_top_100.txt logs_bottom_100.txt > logs_snapshot.txt
23. Cat >> logs_snapshot.txt
24. Less logs.txt
25. Cat | cut -d '%' -f1 marks.csv
26. D
27. D
28.
29. Mv done.txt final
30. Mv done.txt average.txt

ii. Running Examples

a. This was the Fraction.java program run through gradle. I would think that it takes two numbers divides them, makes it a fraction, reduces it, then returns it to the user

```
MINGW64:/c/Users/Robby/ser321examples/Sockets/JavaSimpleSock2                                    —    □    ×

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Sockets/JavaSimpleSock2/src/main/java (master)
$ vim SockClient.java

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Sockets/JavaSimpleSock2/src/main/java (master)
$ cd ..

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Sockets/JavaSimpleSock2/src/main (master)
$ cd ..

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Sockets/JavaSimpleSock2/src (master)
$ cd ..

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Sockets/JavaSimpleSock2 (master)
$ gradle SockClient -Phost=34.217.63.155 -Pmessage=secret -Pnumber=5

FAILURE: Build failed with an exception.

* What went wrong:
Project directory 'C:\Users\Robby\ser321examples\Sockets\JavaSimpleSock2' is not part of the build defined by settings file 'C:\Users\Robby\ser321exampl
es\settings.gradle'. If this is an unrelated build, it must have its own settings file.

* Try:
> Run with --stacktrace option to get the stack trace.
> Run with --info or --debug option to get more log output.
> Run with --scan to get full insights.

* Get more help at https://help.gradle.org
```

b. All I can tell from this it that it's a client server providing some information and data to the given server class in the folder

```
    MINGW64:/c/Users/Robby/ser321examples/Middleware/G-RPC                    —    □    ✕

$ cd G-RPC

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Middleware/G-RPC (master)
$ gradle runClientJava

> Task :G-RPC:generateProto
protoc plugin 'python' not defined. Trying to use 'protoc-gen-python' from system path

> Task :G-RPC:runClientJava
RPC failed: UNAVAILABLE: io exception

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.
0.

You can use '--warning-mode all' to show the individual deprecation warnings and determin
e if they come from your own scripts or plugins.

See https://docs.gradle.org/7.4.2/userguide/command_line_interface.html#sec:command_line_
warnings

BUILD SUCCESSFUL in 9s
6 actionable tasks: 6 executed

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Middleware/G-RPC (master)
$ |
```

c. It looks like this program iterates through loops using threads however im not too sure
    on the specifics of how or why.

```
$ gradle run

> Task :run
Hello from 3 loop=0
Hello from 4 loop=0
Hello from 2 loop=0
Hello from 1 loop=0
Hello from 0 loop=0
Hello from 0 loop=1
Hello from 0 loop=2
Hello from 0 loop=3
Hello from 0 loop=4
Hello from 1 loop=1
Hello from 2 loop=1
Hello from 1 loop=2
Hello from 3 loop=1
Hello from 1 loop=3
Hello from 4 loop=1
Hello from 2 loop=2
Hello from 1 loop=4
Hello from 3 loop=2
Hello from 2 loop=3
Hello from 4 loop=2
Hello from 2 loop=4
Hello from 3 loop=3
Hello from 3 loop=4
Hello from 4 loop=3
Hello from 4 loop=4

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.
0.

You can use '--warning-mode all' to show the individual deprecation warnings and determin
e if they come from your own scripts or plugins.

See https://docs.gradle.org/7.4.2/userguide/command_line_interface.html#sec:command_line_
warnings

BUILD SUCCESSFUL in 925ms
2 actionable tasks: 2 executed

Robby@DESKTOP-H4P3Q7L MINGW64 ~/ser321examples/Threads/FirstThread (master)
$ |
```

iii.