1: Command line tasks:

Linux System

1: mkdir cli_assignment

2: cd cli_assignment

3: > stuff.txt

4: cat > stuff.txt

5: wc -w stuff.txt, wc -w stuff.txt

6: echo 'Here is some more text to add onto the document after replacing the old text' >> stuff.txt

7: mkdir draft

8: mv stuff.txt draft

9: cd draft, touch .secret.txt

10: cp -r draft final

11: mv draft draft.remove

12: mv draft.remove final

13: ls -r

14:

15: gzip -d NASA_access_log_Aug95.gz

16: mv NASA_access_log_Aug95 logs.txt

17: mv logs.txt cli_assignment

18: while IFS= read -r line; do

 printf '%s\n' "$line"

done < input_file

19: head -100 logs.txt > logs_top_100.txt

20: tail -100 logs.txt

21: tail -100 logs.txt > logs_bottom_100.txt

22: sudo cat logs_top_100.txt logs_bottom_100.txt > logs_snapshot.txt

23: echo "agnelso9: This is a great assignment January 19, 2022" >> logs_snapshot.txt

24: less logs.txt

2: Some Setup and Examples:

2.1 – Link at top of document

```
C:\Users\them4>cd C:\Users\them4\Documents\GitHub\ser321examples\Threads\Account

C:\Users\them4\Documents\GitHub\ser321examples\Threads\Account>gradle run
Starting a Gradle Daemon, 1 incompatible Daemon could not be reused, use --status for details

> Task :run
Transaction started #1
Transaction started #4
Transaction started #2
Transaction started #3
Transaction started #5
Balance is 150

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 determine if they come from your own sc
ripts or plugins.

See https://docs.gradle.org/7.3.3/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 4s
2 actionable tasks: 2 executed
C:\Users\them4\Documents\GitHub\ser321examples\Threads\Account>
```

```
C:\Users\them4\Documents\GitHub\ser321examples\Threads\FirstThread>gradle run

> Task :run
Hello from 4 loop=0
Hello from 2 loop=0
Hello from 1 loop=0
Hello from 0 loop=0
Hello from 3 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 1 loop=2
Hello from 3 loop=1
Hello from 1 loop=3
Hello from 1 loop=4
Hello from 2 loop=1
Hello from 4 loop=1
Hello from 2 loop=2
Hello from 3 loop=2
Hello from 4 loop=2
Hello from 3 loop=3
Hello from 2 loop=3
Hello from 4 loop=3
Hello from 3 loop=4
Hello from 2 loop=4
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 determine if they come from your own sc
ripts or plugins.

See https://docs.gradle.org/7.3.3/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 1s
2 actionable tasks: 2 executed
C:\Users\them4\Documents\GitHub\ser321examples\Threads\FirstThread>
```

```
C:\Users\them4\Documents\GitHub\ser321examples\Threads\Synchronization>gradle run

> Task :run
Transaction started #1
Transaction started #5
Transaction started #3
Transaction started #4
Transaction started #2
Balance (deposit): 1
Back from deposit in thread 1
Balance is 1 from 1 transactions
Balance (deposit): 3
Back from deposit in thread 2
Balance (deposit): 7
Back from deposit in thread 4
Balance (deposit): 10
Back from deposit in thread 3
Balance (deposit): 15
Back from deposit in thread 5
Balance (deposit): 21
Back from deposit in thread 3
Balance (deposit): 29
Back from deposit in thread 4
Balance (deposit): 33
Back from deposit in thread 2
Balance (deposit): 35
Back from deposit in thread 1
Balance (deposit): 41
Back from deposit in thread 2
Balance (deposit): 53
Back from deposit in thread 4
Balance (deposit): 62
Back from deposit in thread 3
Balance (deposit): 72
Back from deposit in thread 5
Balance (deposit): 75
Back from deposit in thread 1
Balance (deposit): 90
Back from deposit in thread 5

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 determine if they come from your own sc
ripts or plugins.

See https://docs.gradle.org/7.3.3/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 16s
2 actionable tasks: 2 executed
C:\Users\them4\Documents\GitHub\ser321examples\Threads\Synchronization>
```

2.4 – Windows as my client system and used AWS as my server system

https://youtu.be/kcj4wLeQqio