

Alper Ozturk  
SER321  
Assignment 1

GitHub Repository: <https://github.com/aozturk1/ser321-spring2023-C-aozturk1.git>

## 2. Command line tasks

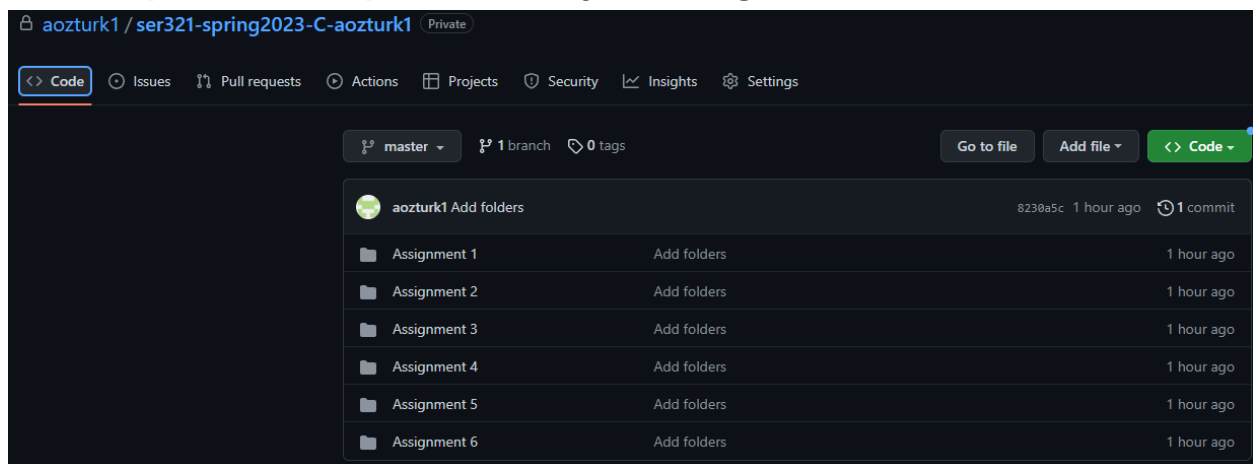
Linux System: 1: mkdir cli\_assignment  
2: cd cli\_assignment  
3: touch stuff.txt  
4: cat > stuff.txt  
5: wc stuff.txt

```
[ec2-user@ip-172-31-25-36 cli_assignment]$ cat stuff.txt
Line 1
Line 2
Line 3
[ec2-user@ip-172-31-25-36 cli_assignment]$ wc stuff.txt
 3  6 21 stuff.txt
```

6: cat >> stuff.txt  
7: mkdir draft  
8: mv stuff.txt /home/test/cli\_assignment/draft  
9: cd draft  
touch .secret.txt  
10: cp -r draft final  
11: mv draft draft.remove  
12: mv draft.remove final  
13: ls -la  
14: cat NASA\_access\_log\_Aug95.gz  
15: gunzip NASA\_access\_log\_Aug95.gz  
16: mv NASA\_access\_log\_Aug95.gz  
17: mv logs.txt /home/test/cli\_assignment  
18: head -100 logs.txt  
19: head -100 logs.txt | > logs\_top\_100.txt  
20: tail -n 100 logs.txt  
21: tail -n 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 -n logs.txt  
25: cut -d "%" -f 1 marks.csv  
26: cut -d "%" -f 4 marks.csv | sort  
27: cut -d "%" -f 3 marks.csv | awk '{sum+=\$1} END {print sum/NR}'  
28: cut -d "%" -f 3 marks.csv | awk '{sum+=\$1} END {print sum/NR}' | cat >  
/home/test/cli\_assignment/done.txt  
29: mv done.txt final

30: mv done.txt average.txt

### 3.1. Setup a GitHub repo to submit your assignments



GitHub Repository: <https://github.com/aozturk1/ser321-spring2023-C-aozturk1.git>

### 3.2. Running examples

Name Example 1: Network/JSON/gradle run

Screenshot:

```
See https://docs.gradle.org/7.4.2/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
G:\Schoool\SER321 Examples Repo\ser321examplesForked\Network\JSON>gradle run

> Task :run
ASU
Poly
[{"firstName":"John","lastName":"Doe"}, {"firstName":"Anna","lastName":"Smith"}, {"firstName":"Peter","lastName":"Jones"}]
John
Anna
Peter

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 scripts or plugins.

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

BUILD SUCCESSFUL in 2s
2 actionable tasks: 2 executed
G:\Schoool\SER321 Examples Repo\ser321examplesForked\Network\JSON>
```

Explanation: Gets the first names of some people related to ASU Poly.

## Name Example 2: Threads\Account

Screenshot:

```
BUILD SUCCESSFUL in 607ms
1 actionable task: 1 executed

> Task :run
Transaction started #1
Transaction started #4
Transaction started #5
Transaction started #2
Transaction started #3
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 scripts or plugins.
See https://docs.gradle.org/7.4.2/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 709ms
2 actionable tasks: 2 executed
G:\School\SER321 Examples Repo\ser321examplesForked\Threads\Account>_
```

Explanation: Shows ballance as well as transaction numbers that were started.

## Name Example 3: Serialization\ClassMigration>gradle runFileSerialize

```
BUILD SUCCESSFUL in 722ms
2 actionable tasks: 2 executed
G:\School\SER321 Examples Repo\ser321examplesForked\Serialization\ClassMigration>gradle runFileSerialize

> Task :runFileSerialize
Done externalizing User with id: Joe has password: hisWord to file user.ser

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 scripts or plugins.
See https://docs.gradle.org/7.4.2/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 610ms
2 actionable tasks: 1 executed, 1 up-to-date
G:\School\SER321 Examples Repo\ser321examplesForked\Serialization\ClassMigration>_
```

Explanation: Externalizes a specific user id (Joe) and password (hisWord) to file user.ser

### 3.3. Understanding Gradle

```
> Task :runFraction
Exactly 2 arguments should be provided.
gradle run --args='1 3'
The fraction is: 1/3

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 scripts or plugins.

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

BUILD SUCCESSFUL in 595ms
2 actionable tasks: 1 executed, 1 up-to-date
G:\School\SER 321 Repo\Assignment 1\JavaGradle>gradle runFrac -Pnum=3 -Pdenom=4

> Task :runFrac
The fraction is: 4/3

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 scripts or plugins.

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

BUILD SUCCESSFUL in 583ms
2 actionable tasks: 1 executed, 1 up-to-date
G:\School\SER 321 Repo\Assignment 1\JavaGradle>gradle runFrac -Pdenom=5

> Task :runFrac
The fraction is: 5/1

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 scripts or plugins.

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

BUILD SUCCESSFUL in 599ms
2 actionable tasks: 1 executed, 1 up-to-date
G:\School\SER 321 Repo\Assignment 1\JavaGradle>
```

### 3.4. Set up your second system

For my second system, I set up AWS with the given instructions.

<https://youtu.be/eIBbHVY9YI4>