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Professor Mehlhase

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SER321

Assignment 1

Github Repo: https://github.com/SSKHAN9/ser321-spring2023-C-SSKHAN9

System: MacOS 13.1

Part 1: Linux, Setup

Completed.

Part 2: Command Line Tasks

- 1. mkdir cli_assignment
- 2. cd cli_assignment
- 3. touch stuff.txt
- 4.cat > stuff.txt

Hi, My name is Saad.

This is my code for assignment 1.

Have a great day!

5. wc -w stuff.txt //to get word count

wc -I stuff.txt //to get line count

6.echo "this is the appended text" >> stuff.txt

- 7. mkdir draft
- 8. mv ~/cli_assignment/stuff.txt ~/cli_assignment/draft/stuff.txt
- 9. cd draft //changed working directory to draft

touch .secret.txt.

10. cd .. //to go back to cli_assignment

cp -r ~/cli_assignment/draft ~/cli_assignment/final //to create copy of draft.

- 11. mv ~/cli_assignment/draft ~/cli_assignment/draft.remove
- 12. mv ~/cli_assignment/draft.remove ~/cli_assignment/final/
- 13. ls -IR
- 14. gzip -l NASA_access_log_Aug95.gz
- 15. gzip -d NASA_access_log_Aug95.gz
- 16. mv NASA_access_log_Aug95 logs.txt
- 17. mv logs.txt ~/cli_assignment/
- 18. head -100 logs.txt
- 19. head -100 logs.txt >> logs_top_100.txt

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20. tail -100 logs.txt
```

~/cli_assignment/done.txt

29. mv done.txt final

30. mv done.txt average.txt

Part 3.1: Setup a GitHub repo to submit your assignments

Completed and link on top of document.

Part 3.2: Running examples

1. Running JavaGradle:

The JavaGradle program build and tests the Multiply and Fraction classes. In the Program are three runnable tests, two for the multiply class and one for the fraction class. The test that I ran is the runApp test which takes two arguments and passes it to the multiply class to be multiplied and displayed. The test was successful.

```
■ JavaGradle — -zsh — 80×24

[saadkhan@Saads-MacBook-Pro JavaGradle % gradle runApp --args '6 3'

> Task :runApp
6 * 3 = 18

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

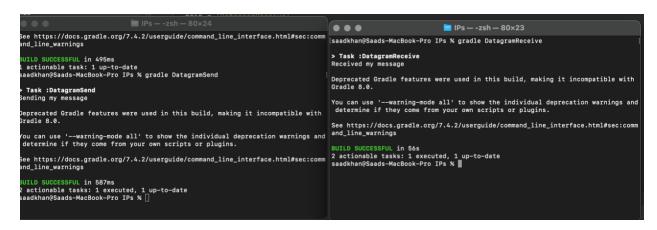
You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come from your own scripts or plugins.

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

BUILD SUCCESSFUL in 560ms
2 actionable tasks: 1 executed, 1 up-to-date saadkhan@Saads-MacBook-Pro JavaGradle %
```

2. Running IPs example:

The IPs gradle build runs the main functions of multiple programs in the IPs directory. I tested DatagramSend and DatagramRecieve tasks to test this example. In this test, the words 'my message' were sent & received by two terminals connected to the port '9099'.



3. Running G-RPC example in middleware files:

In this example I ran the task called runJavaServer. This task started a java server at the port '9099'. In this gradle build, unlike the gradle build in IPs, the port variable was defined and reused in multiple tasks while in IPs the port was defined in the tasks that were using it.

Part 3.3: Understanding Gradle

Completed and added to GitHub repo.

Part 3.4: Set up your second system

Second System: AWS

Link to Screencast: https://youtu.be/9ddawgEZGOE