Assignment 1.1

1.1 Command Line Tasks

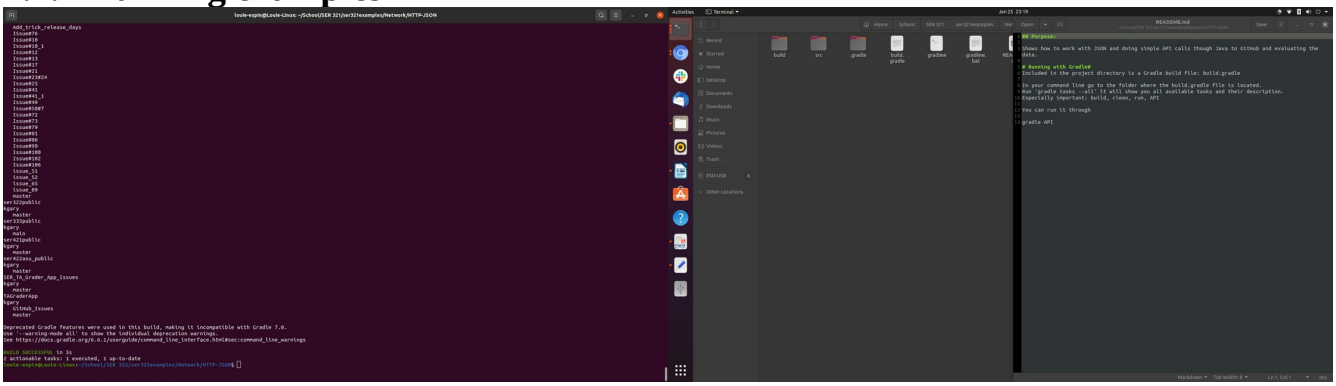
1. Create a directory named ’cli_assignment’.
mkdir cli_assignment
2. Change the current working directory to the new directory.
cd cli_assignment
3. Create a new file named ’stuff.txt’. Use the touch command to do this. Read about the touch command using the manual (man) pages.
touch stuff.txt
4. Add some text (multiple lines) to this text file using the cat command.
cat stuff.txt
5. Count the number of words and the number of lines in the file ’stuff.txt’.
cat >> stuff.txt then **ctrl+D** to quit
6. Append more text to the file ’stuff.txt’.
echo "that is a cat!" >> stuff.txt
7. In the current working directory, create a new directory ’draft’.
mkdir draft
8. Move the ’stuff.txt’ file to the directory ’draft’.
mv stuff.txt draft
9. Change your working directory to ’draft’ and create a hidden file named ’secret.txt’.
cd draft then **touch .secret.txt**
10. Create a new directory (’final’) as a copy of the ’draft’ directory (final should be on the same level as draft) using the copy command.
cp -R draft final
11. Rename the ’draft’ directory to ’draft.remove’. Use the mv command for this.
mv draft draft.remove
12. Move the ’draft.remove’ directory to inside the ’final’ directory. Use the mv command for this.
mv draft.remove final
13. From inside the ’cli_assignment’ directory list all the files and sub-directories and their permissions.
ls -l -R
14. List the contents of the given file ’NASA_access_log_Aug95.gz’ without extracting it.
gzip -cd NASA_access_log_Aug95.gz or **gunzip -c NASA_access_log_Aug95.gz**
15. Extract the given file ’NASA_access_log_Aug95.gz’.
gzip -d NASA_access_log_Aug95.gz
16. Rename the extracted file to ’logs.txt’.
mv NASA_access_log_Aug95 logs.txt
17. Move the file ’logs.txt’ to the ’cli_assignment’ directory.
mv logs.txt cli_assignment
18. Read the top 100 lines of the file ’logs.txt’.
head -100 logs.txt
19. Create a new file ’logs_top_100.txt’ containing the top 100 lines using I/O redirection.
head -100 logs.txt >> logs_top_100.txt
20. Read the bottom 100 lines of the file ’logs.txt’.
tail -100 logs.txt
21. Create a new file ’logs_bottom_100’.txt containing the bottom 100 lines using I/O redirection.
tail -100 logs.txt >> logs_bottom_100.txt

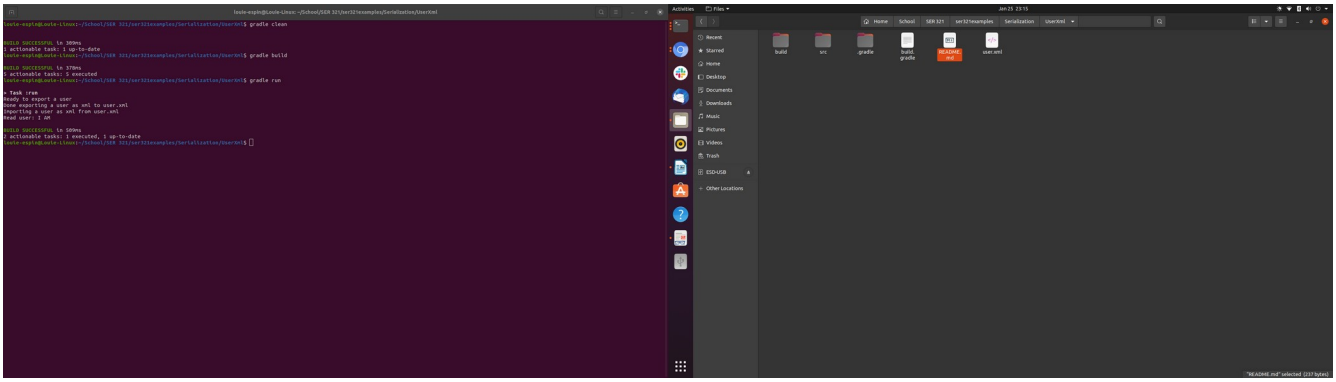
22. Create a new file ’logs_snapshot’.txt by concatenating files ’logs_top_100’.txt and ’logs_bottom_100’.txt.
cat logs_top_100.txt logs_bottom_100.txt >> logs_snapshot.txt
23. Now append to the ’logs_snapshot’.txt the line "asurite: This is a great assignment" and the current date (asurite is your asurite, e.g. amehlhas for me)
echo 'lfespino: This is a great assignment 1/25' >> logs_snapshot.txt
24. Read the file ’logs.txt’ using the less command.
less logs.txt
25. Using the given file ’marks.csv’ (delimited by %), print the column ’student_names’ without the header (you can use the column num as index). Use the cut command for this.
cut -d ‘%’ -f 1 ../marks.csv | awk ‘NR > 1’
26. Using the given file ’marks.csv’, print the sorted list of marks in ’subject_3’. Use the sort command piped with the cut command.
cut -d ‘%’ -f 1 ../marks.csv | awk ‘NR > 1’ | sort
27. Using the given file ’marks.csv’, print the average marks for ’subject_2’.
awk -F’%’ ‘NR > 1 {sum += $3} END {print “Average = “ sum/(NR-1)}’ ../marks.csv
28. Save the average into a new file ’done.txt’.
awk -F’%’ ‘NR > 1 {sum += $3} END {print “Average = “ sum/(NR-1)}’ ../marks.csv > done.txt
29. Move ’done.txt’ into your ’final’ directory.
mv done.txt final
30. Rename the ’done.txt’ file to ’average.txt’.
mv done.txt average.txt

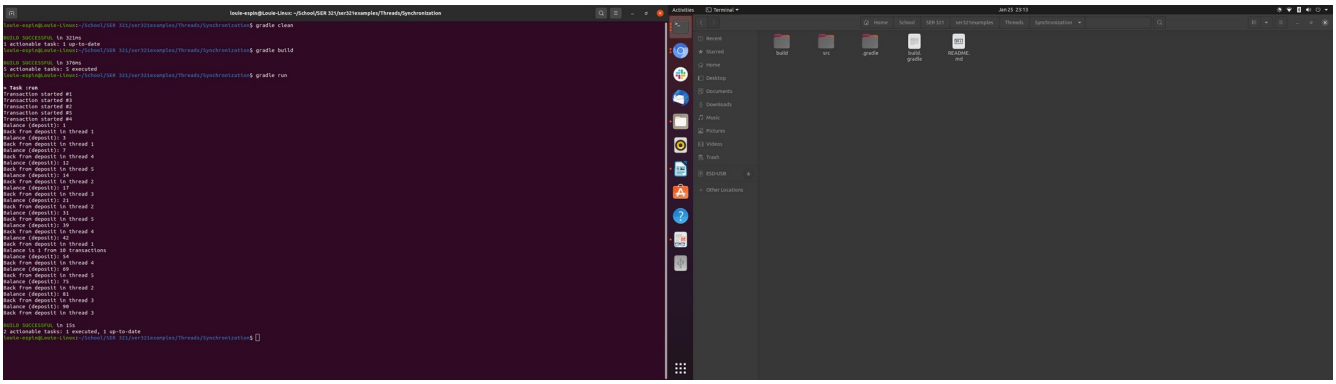
1.2.1 Setup a GitHub repo to submit your assignments

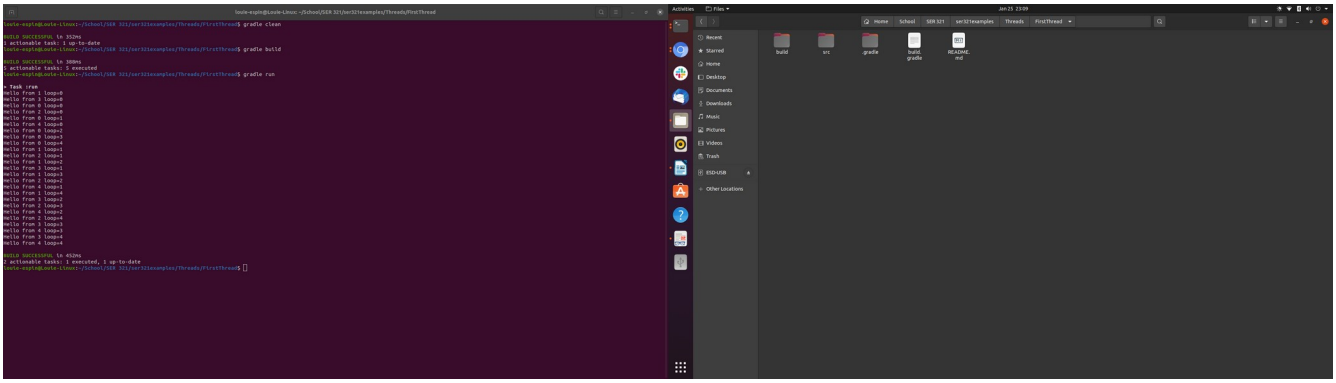
Invite Link: https://github.com/Louie-Espin/ser321-spring2021-C-lfespino.git

1.2.2 Running examples









1.2.3 Understanding Gradle

Updated GitHub repo

1.2.4 Set up your second system