1. Creating and Renaming Files/Directories

Create a directory named test\_dir using mkdir.

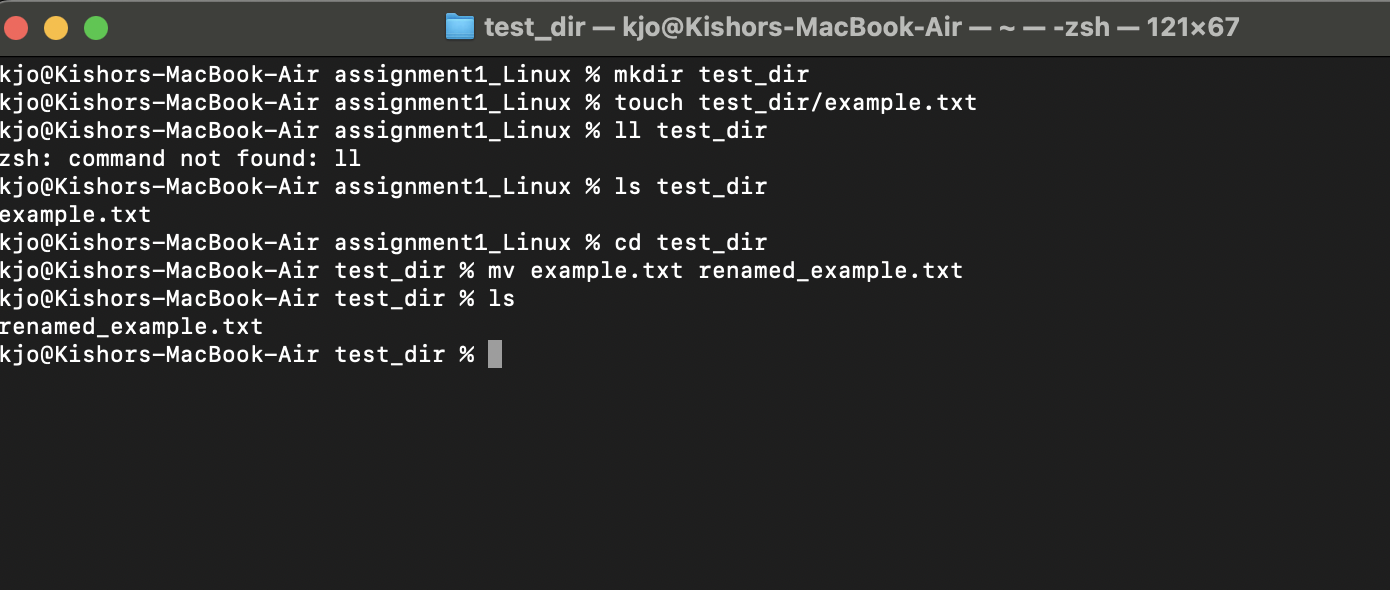
Inside test\_dir, create an empty file called example.txt.

Rename example.txt to renamed\_example.txt using mv  
  
**Implementation - Commands and explanation.**

Commands used   
  
1. **mkdir test\_dir** # Creating directory named test\_dir

2. **touch test\_dir/example.txt** # Creating an empty file named example.txt under test\_dir

3. **mv example.txt renamed\_example.txt #** command to change the name example.txt to renamed\_example.txt using mv



2. Viewing File Contents

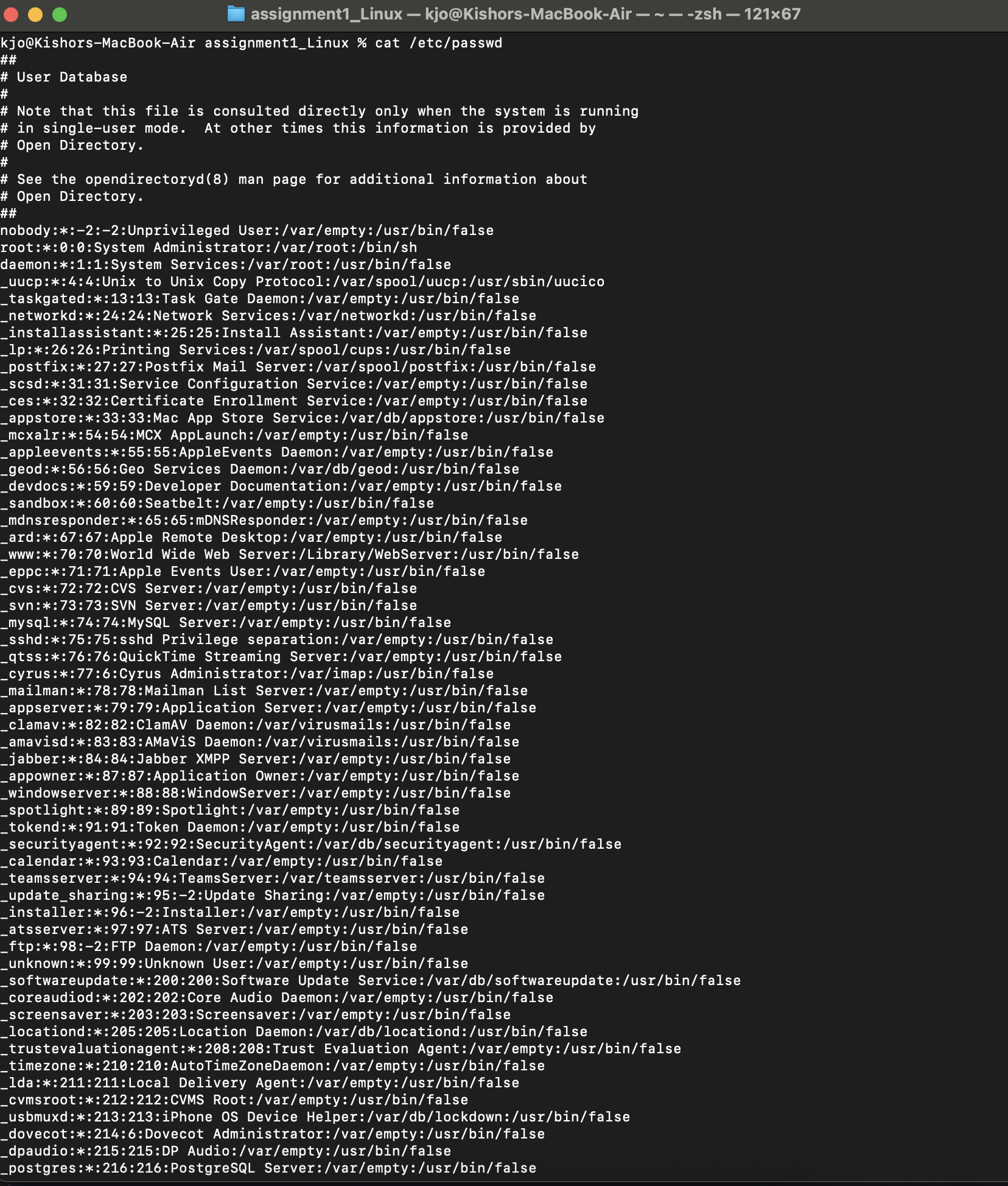
Use cat to display the contents of /etc/passwd.

Display only the first 5 lines of /etc/passwd using head.

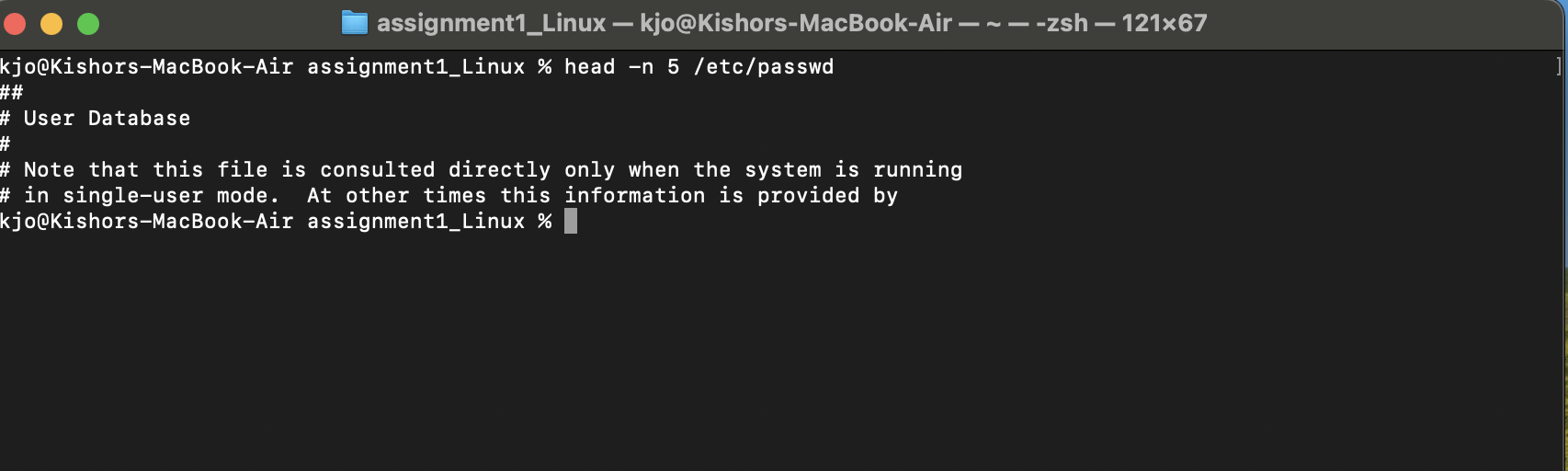
Display only the last 5 lines of /etc/passwd using tail.

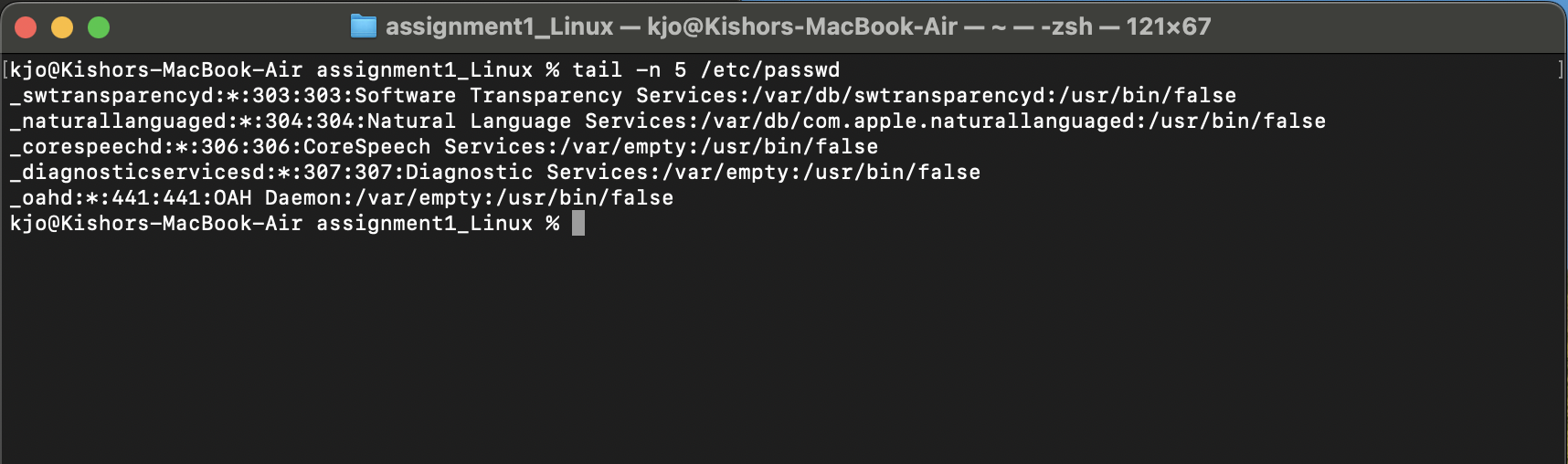
**Implementation - Commands and explanation.**

1. **Cat to display the content of /etc/passwd -** cat /etc/passwd

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1. **Display only the first 5 lines of /etc/passwd using head command. -** head -n 5 /etc/passwd

****

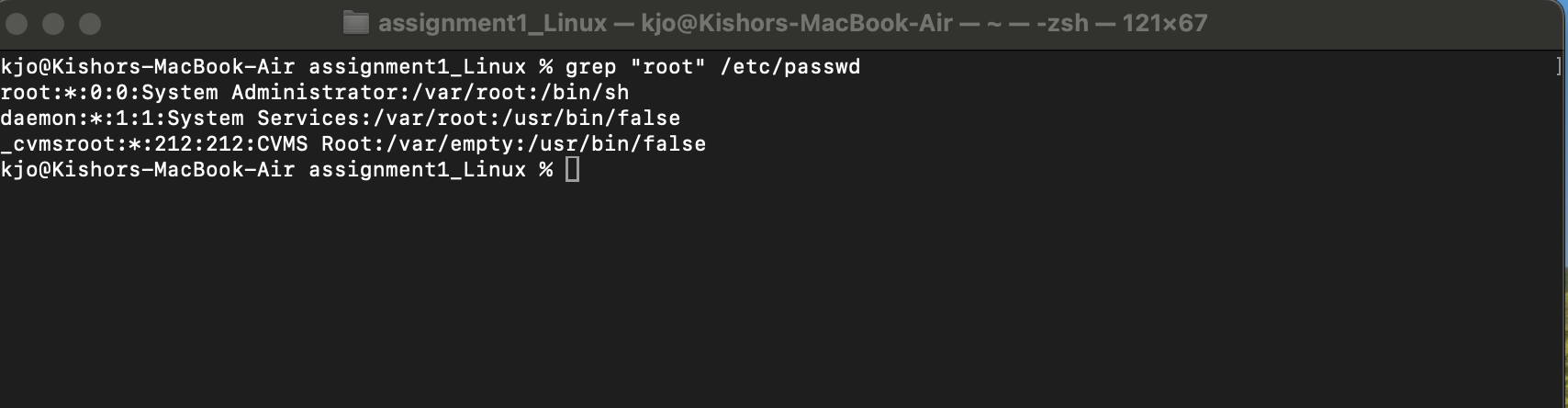
1. **Display only the last 5 lines of /etc/passwd using tail. -** tail -n 5 /etc/passwd ****

3.Searching for Patterns

Use grep to find all lines containing the word "root" in /etc/passwd.

**Implementation - Commands and explanation.**

**Command used -** grep “root” /etc/passwd

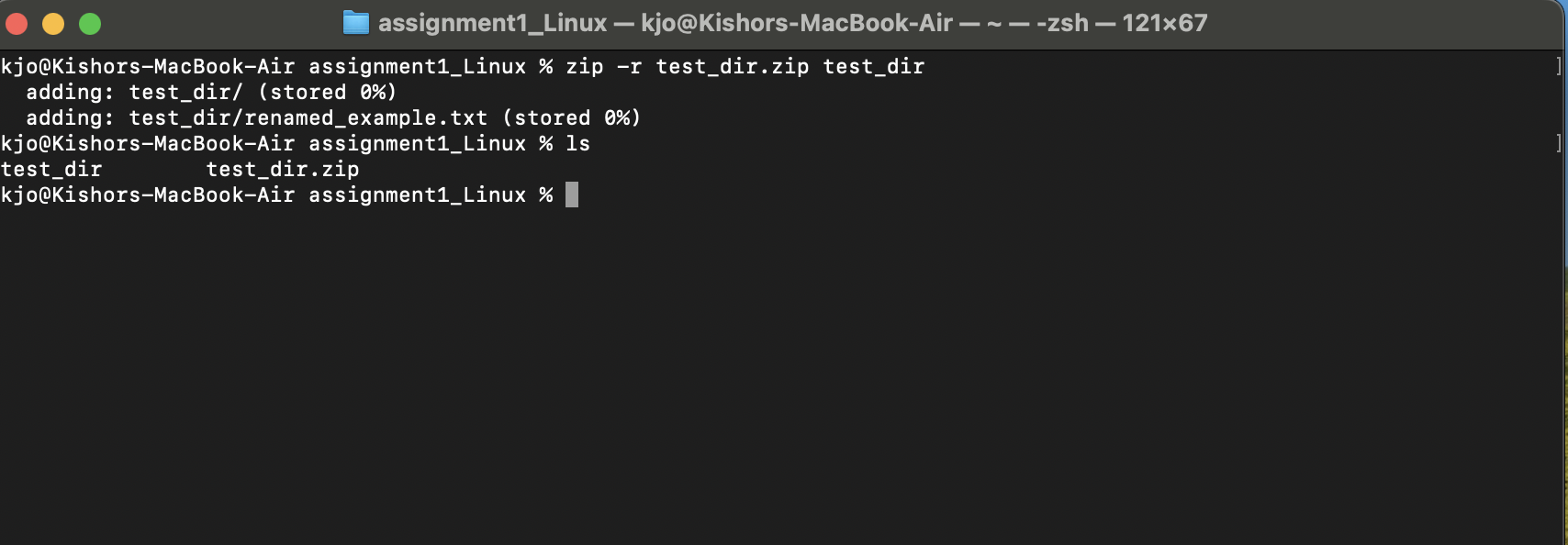


4. Zipping and Unzipping

Compress the test\_dir directory into a file named test\_dir.zip using zip.

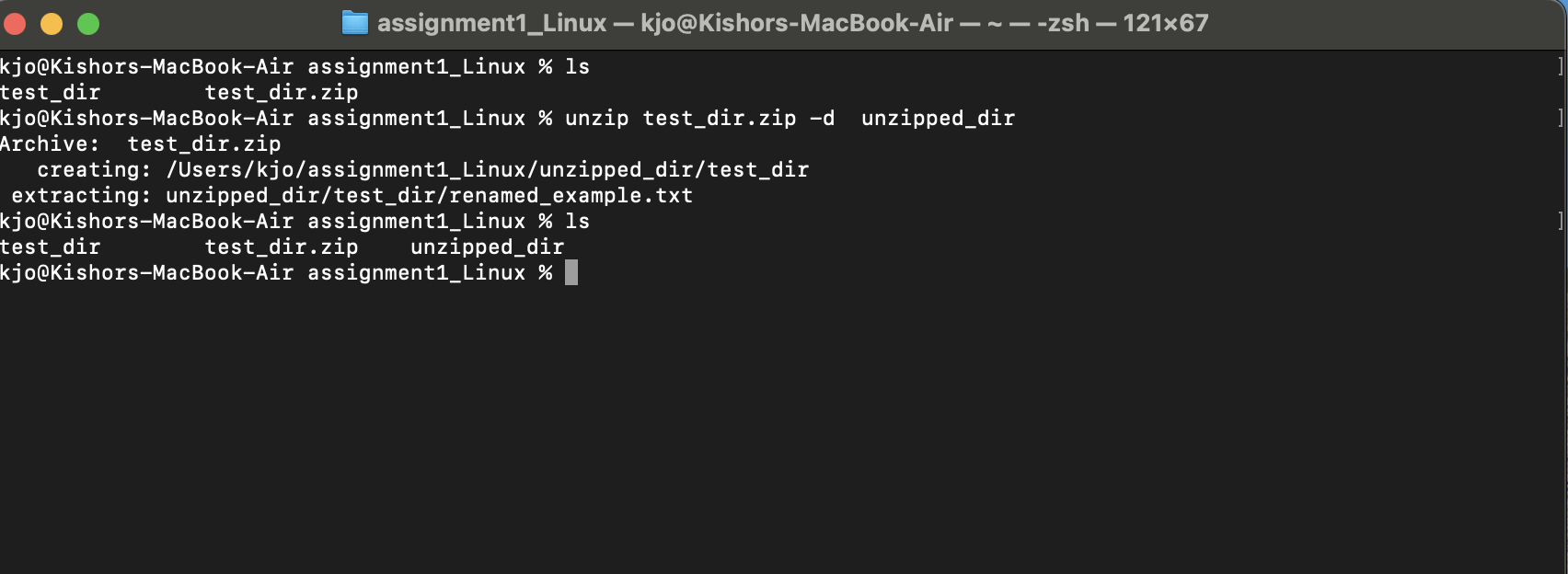
Unzip test\_dir.zip into a new directory named unzipped\_dir.  
  
**Implementation - Commands and explanation.**

1. Compress the test\_dir directory into a file named test\_dir.zip using zip.

**zip -r test\_dir.zip test\_dir  
Note:** -r is used here to recursively full directory zipped with all its contents  
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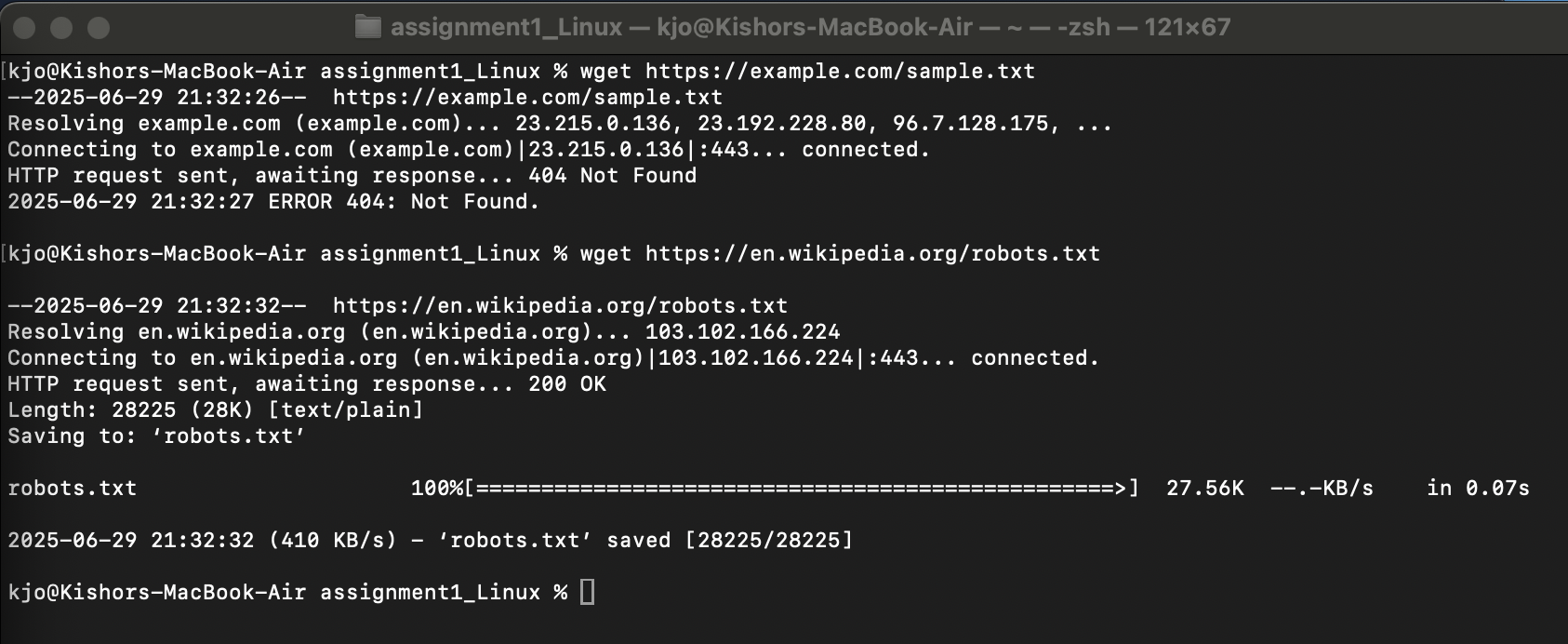
1. Unzip test\_dir.zip into a new directory named unzipped\_dir.  
   **unzip test\_dir.zip -d unzipped\_dir**

note: -d is used here for clean extraction into a specific folder



5. Downloading Files

Use wget to download a file from a URL (e.g., <https://example.com/sample.txt>).

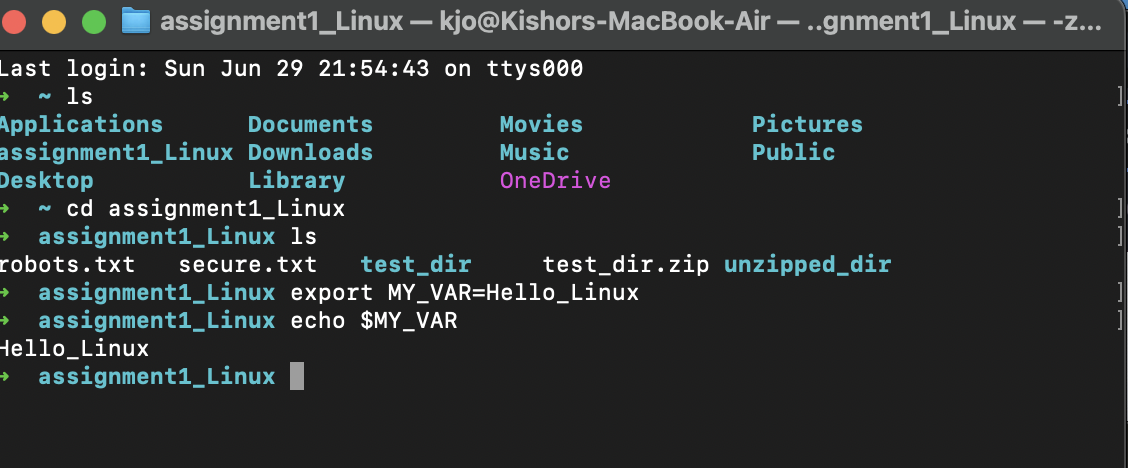
Command used: **wget https://en.wikipedia.org/robots.txt**  
  


6. Changing Permissions

Create a file named secure.txt and change its permissions to read-only for everyone using chmod.  
  
**Commands used: touch secure.txt**

**Chmod 444 secure.txt**  
  


7. Working with Environment Variables

Use export to set a new environment variable called MY\_VAR with the value "Hello, Linux!".  
  
Command used : **export MY\_VAR=Hello\_Linux** and **echo $MY\_VAR**  


**Submission Guidelines -:** Attach Screenshots or command along with explanation and submit in doc(google doc or microsoft doc) format also attach github repo link