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

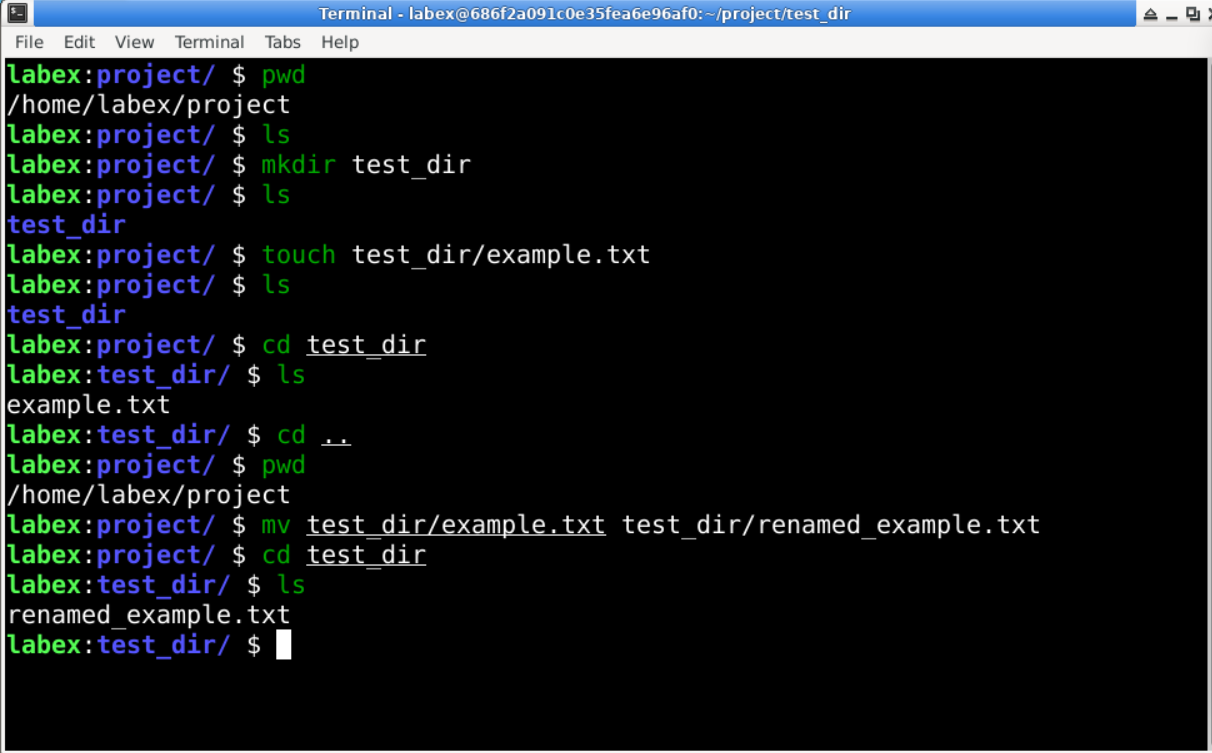
**Answer :-**

mkdir test\_dir    //Create a directory named test\_dir

touch test\_dir/example.txt    //Create an empty file example.txt inside test\_dir

mv test\_dir/example.txt test\_dir/renamed\_example.txt   //rename the file example.txt to renamed\_example.txt inside test\_dir

**Screenshot -**



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.

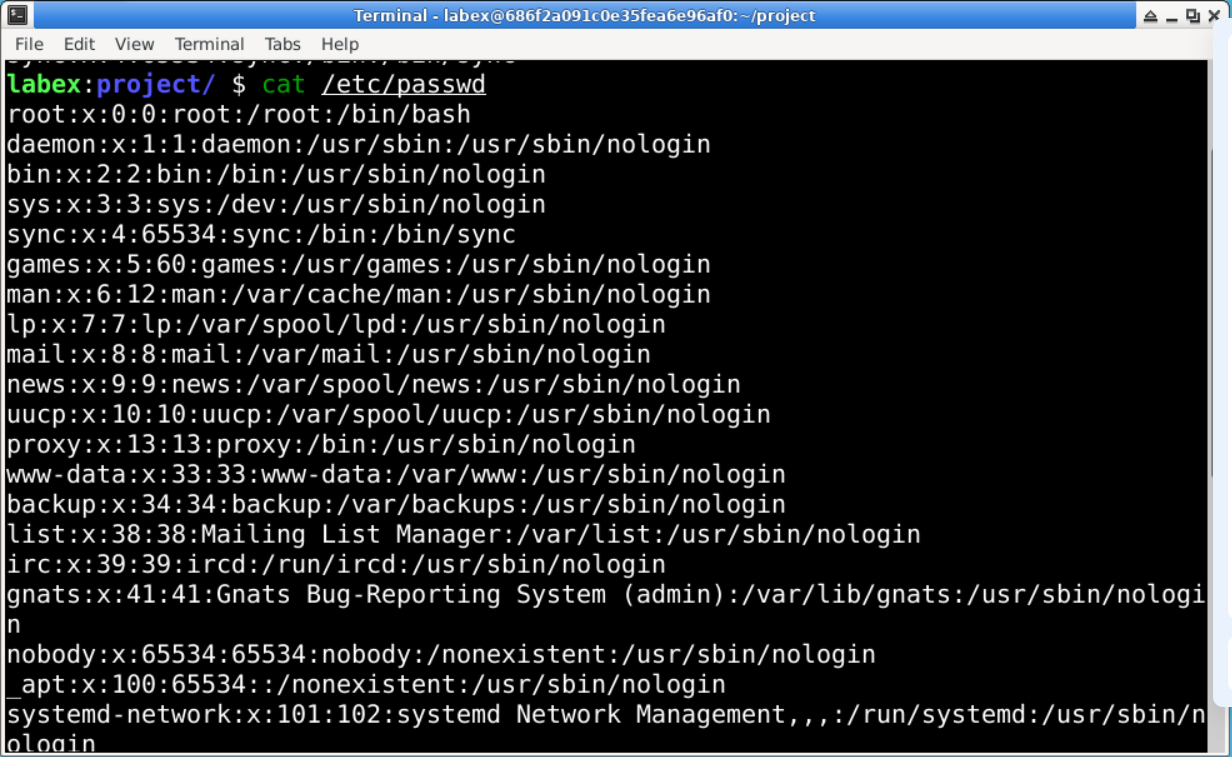
**Answer:-**

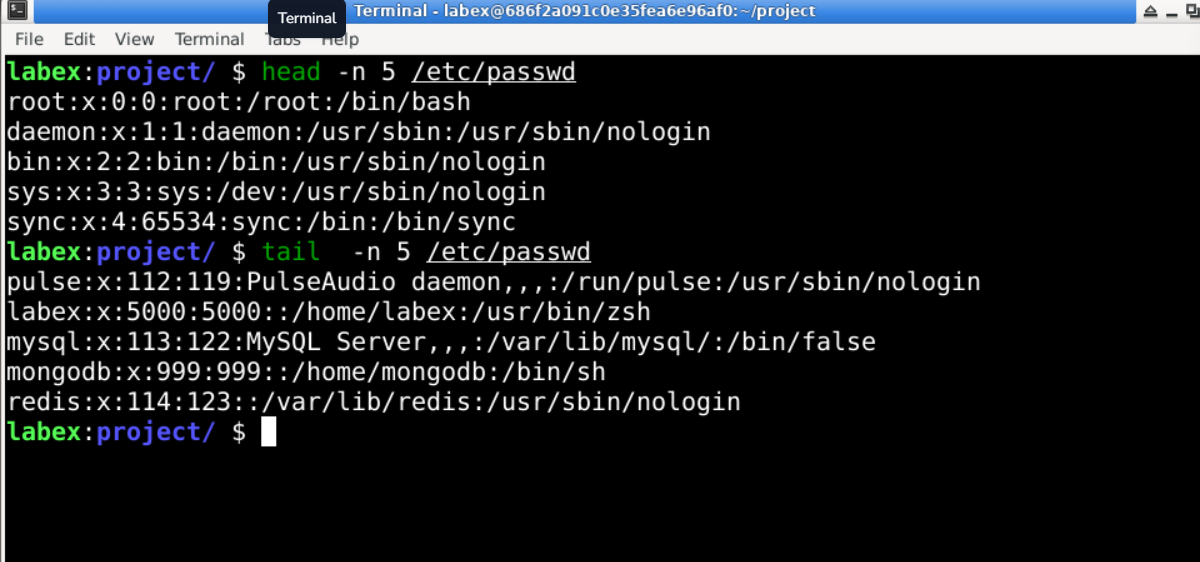
cat /etc/passwd    //Display the entire contents of /etc/passwd

head -n 5 /etc/passwd    //Display only the first 5 lines

tail -n 5 /etc/passwd       //Display only the last 5 lines

**Screenshot:-**

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3.Searching for Patterns

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

**Answer:-**

grep ‘root’ /etc/passwd

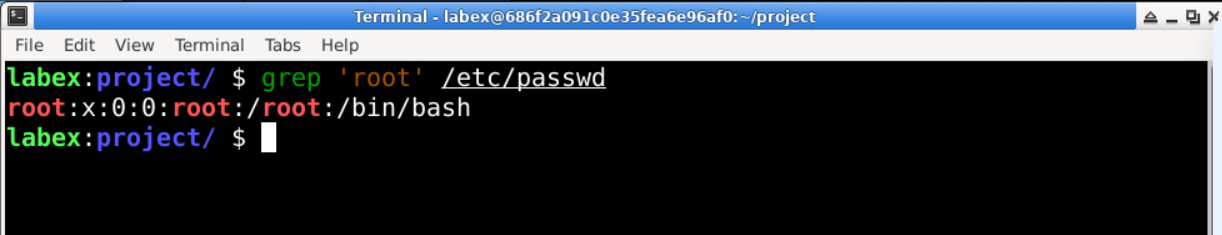
**Explanation:-**

grep is used to search for patterns in files.

'root' is the string pattern we are searching for.

/etc/passwd is the file we are searching in.

**Screenshot:-**

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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.

**Answer:-**

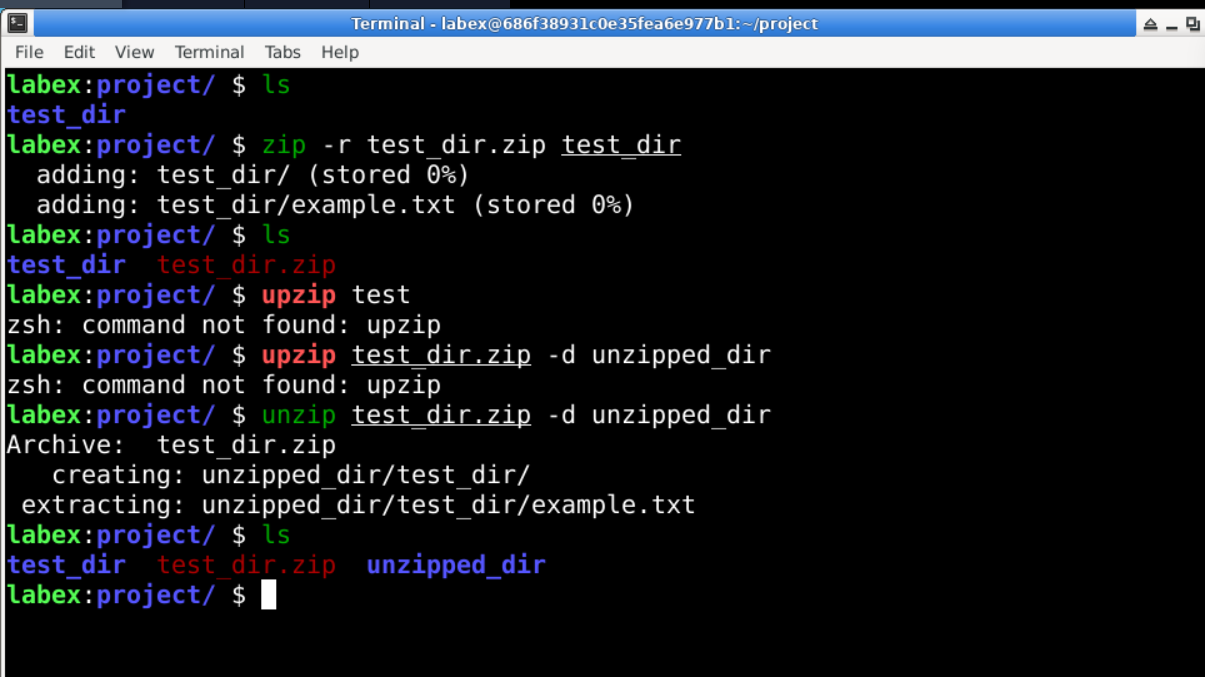
zip -r test\_dir.zip test\_dir       //Compress test\_dir to test\_dir.zip

* -r means recursive, so it includes all files and subdirectories.
* This creates test\_dir.zip in the current directory.

unzip test\_dir.zip -d unzipped\_dir     //unzip test\_dir.zip into new dir called unzipped\_dir

* -d specifies the target directory for extraction

**Screenshot:-**

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5. Downloading Files

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

Answer:-

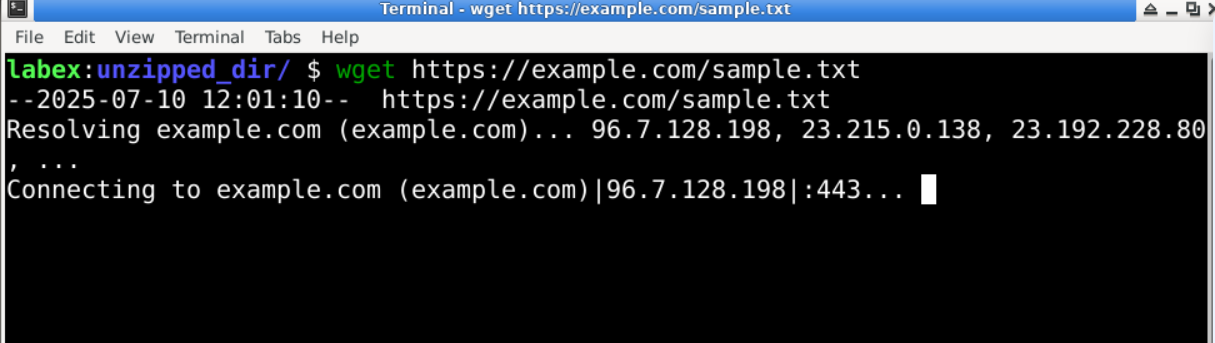
wget <https://example.com/sample.txt>

**Explanation:**

wget is a command-line utility to download files from the web.

https://example.com/sample.txt is the URL of the file you want to download.

**Screenshot:**



6. Changing Permissions

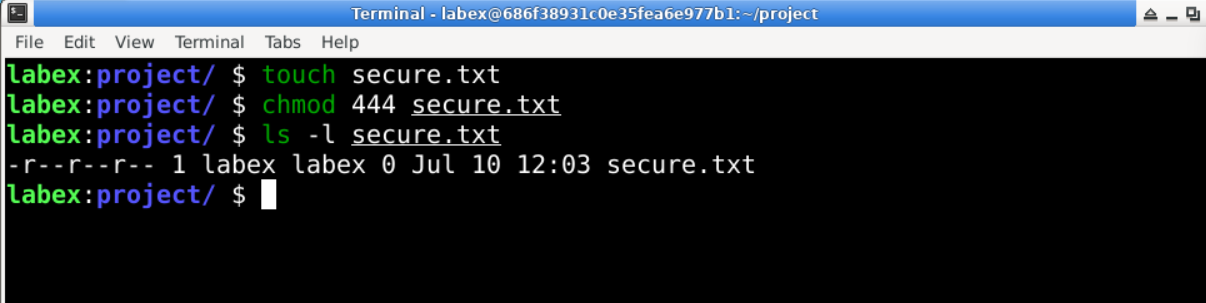
Create a file named secure.txt and change its permissions to read-only for everyone using chmod.

**Answer:**

touch secure.txt       //create a empty file named secure.txt

chmod 444 secure.txt       //change the permission of the file to ready-only for everyone.

**Screenshot:**



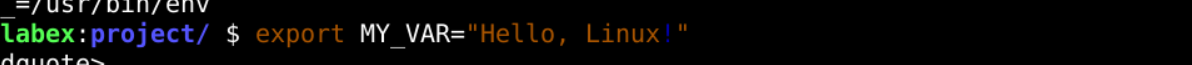
7. Working with Environment Variables

Use export to set a new environment variable called MY\_VAR with the value "Hello, Linux!".

**Answer:**

export MY\_VAR=”Hello, Linux!”        //Create an env variable called MY\_VAR and set it’s value to “Hello, Linux!”

**Screenshot:**



GITHUB REPO Link -