

The below screenshot shows the the following points:

Task 1:

List all files in the home directory using a single command.

Display the absolute path of the current working directory.

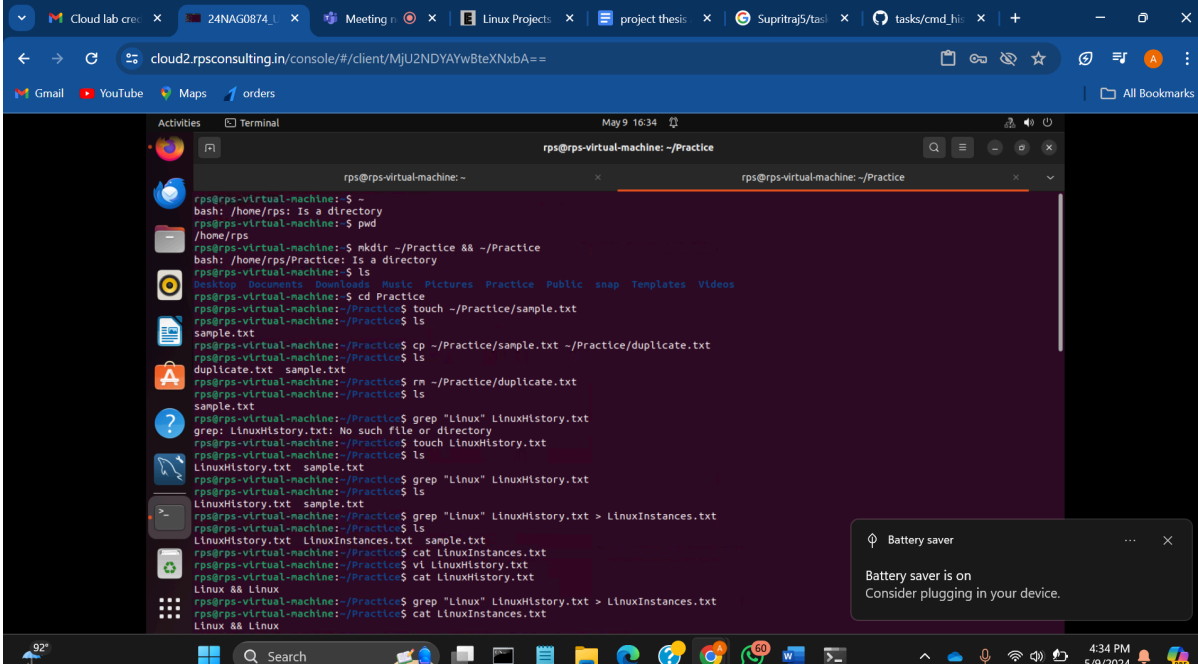
Create a new directory called Practice in the home directory and navigate into it.

Task 2:

In the Practice directory, create a new file called sample.txt.

Copy sample.txt to a new file called duplicate.txt.

Delete duplicate.txt using a command-line command.



The screenshot shows a terminal window titled 'rps@rps-virtual-machine: ~/Practice'. The terminal displays the following commands and their outputs:

```
rps@rps-virtual-machine: ~$ ls
bash: /home/rps: is a directory
rps@rps-virtual-machine: ~$ pwd
/home/rps
rps@rps-virtual-machine: ~$ mkdir ~/Practice && ~/Practice
bash: /home/rps/Practice: is a directory
rps@rps-virtual-machine: ~$ ls
Desktop Documents Downloads Music Pictures Practice Public snap Templates Videos
rps@rps-virtual-machine: ~$ cd Practice
rps@rps-virtual-machine: ~/Practice$ touch ~/Practice/sample.txt
rps@rps-virtual-machine: ~/Practice$ ls
sample.txt
rps@rps-virtual-machine: ~/Practice$ cp ~/Practice/sample.txt ~/Practice/duplicate.txt
rps@rps-virtual-machine: ~/Practice$ ls
duplicate.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ rm ~/Practice/duplicate.txt
rps@rps-virtual-machine: ~/Practice$ ls
sample.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
grep: LinuxHistory.txt: No such file or directory
rps@rps-virtual-machine: ~/Practice$ touch LinuxHistory.txt
rps@rps-virtual-machine: ~/Practice$ ls
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ ls
LinuxHistory.txt LinuxInstances.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ cat LinuxInstances.txt
Linux && Linux
rps@rps-virtual-machine: ~/Practice$ cat LinuxHistory.txt
Linux && Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
Linux && Linux
```

A 'Battery saver' notification is visible on the right side of the terminal window, stating 'Battery saver is on. Consider plugging in your device.'

The below screenshot shows the the following points:

Task 3:

Use grep to find all instances of the word "Linux" in the LinuxHistory.txt file.

Redirect the output to a new file called LinuxInstances.txt.

```
rps@rps-virtual-machine: ~/Practice
rps@rps-virtual-machine: ~/Practice
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
grep: LinuxHistory.txt: No such file or directory
rps@rps-virtual-machine: ~/Practice$ touch LinuxHistory.txt
rps@rps-virtual-machine: ~/Practice$ ls
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ ls
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ ls
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ cat LinuxInstances.txt
Linux
Linux
rps@rps-virtual-machine: ~/Practice$ vi LinuxHistory.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
Linux and Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ cat LinuxInstances.txt
Linux and Linux
rps@rps-virtual-machine: ~/Practice$ vi LinuxHistory.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
Linux is a Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ cat LinuxInstances.txt
Linux is a Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ cat LinuxHistory.txt
Linux is a Linux
rps@rps-virtual-machine: ~/Practice$ cat grep "Linux" LinuxHistory.txt > LinuxInstances.txt
cat: grep: No such file or directory
cat: Linux: No such file or directory
```

The below screenshot shows the following points:

Task 4:

View the current permissions for sample.txt.

Change the permissions to read-only for the owner and no permissions for others.

Change the ownership of LinuxHistory.txt to another user (assuming one exists).

```
rps@rps-virtual-machine: ~/Practice
rps@rps-virtual-machine: ~/Practice
rps@rps-virtual-machine: ~/Practice$ ls -l
-rw-rw-r-- 1 rps rps 0 May 9 14:39 sample.txt
rps@rps-virtual-machine: ~/Practice$ cat LinuxHistory.txt
Linux and Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
Linux and Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ ls
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ vi LinuxHistory.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ cat grep "Linux" LinuxHistory.txt > LinuxInstances.txt
cat: grep: No such file or directory
cat: Linux: No such file or directory
rps@rps-virtual-machine: ~/Practice$ cat
^C
rps@rps-virtual-machine: ~/Practice$ cat LinuxHistory.txt
Linux 1 Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
Linux 1 Linux
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt > LinuxInstances.txt
rps@rps-virtual-machine: ~/Practice$ grep "Linux" LinuxHistory.txt
Linux 1 Linux
rps@rps-virtual-machine: ~/Practice$ ls -l sample.txt
-rw-rw-r-- 1 rps rps 0 May 9 14:39 sample.txt
rps@rps-virtual-machine: ~/Practice$ chown 400 sample.txt
rps@rps-virtual-machine: ~/Practice$ ls
LinuxHistory.txt sample.txt
rps@rps-virtual-machine: ~/Practice$ sudo chown username LinuxHistory.txt
[sudo] password for rps:
chown: invalid user: 'username'
rps@rps-virtual-machine: ~/Practice$ ls -l sample.txt
-rw-rw-r-- 1 rps rps 0 May 9 14:39 sample.txt
rps@rps-virtual-machine: ~/Practice$
```