

Task1: File Navigation and Directory Structure

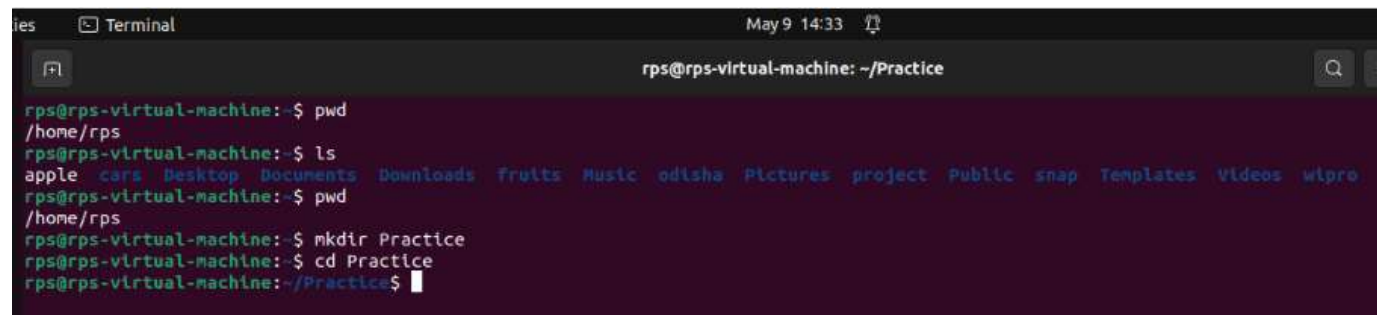
Objective: Demonstrate basic file navigation and directory structure understanding.

Action Items:

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.



```
rps@rps-virtual-machine: ~$ pwd
/home/rps
rps@rps-virtual-machine:~$ ls
apple  cars  Desktop  Documents  Downloads  Fruits  Music  odisha  Pictures  project  Public  snap  Templates  Videos  wipro
rps@rps-virtual-machine:~$ pwd
/home/rps
rps@rps-virtual-machine:~$ mkdir Practice
rps@rps-virtual-machine:~$ cd Practice
rps@rps-virtual-machine:~/Practice$
```

Task 2: File Management Commands

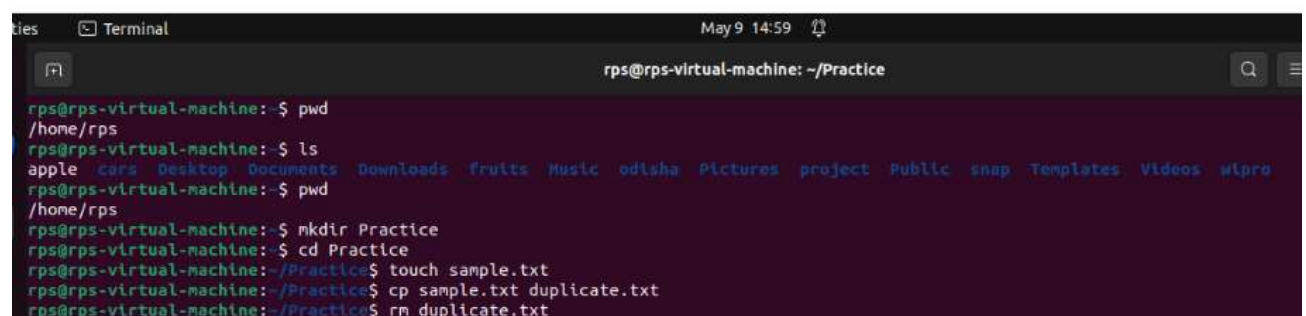
Objective: Use file management commands to organize files and directories.

Action Items:

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.



```
rps@rps-virtual-machine: ~$ pwd
/home/rps
rps@rps-virtual-machine:~$ ls
apple  cars  Desktop  Documents  Downloads  Fruits  Music  odisha  Pictures  project  Public  snap  Templates  Videos  wipro
rps@rps-virtual-machine:~$ pwd
/home/rps
rps@rps-virtual-machine:~$ mkdir Practice
rps@rps-virtual-machine:~$ cd Practice
rps@rps-virtual-machine:~/Practice$ touch sample.txt
rps@rps-virtual-machine:~/Practice$ cp sample.txt duplicate.txt
rps@rps-virtual-machine:~/Practice$ rm duplicate.txt
```

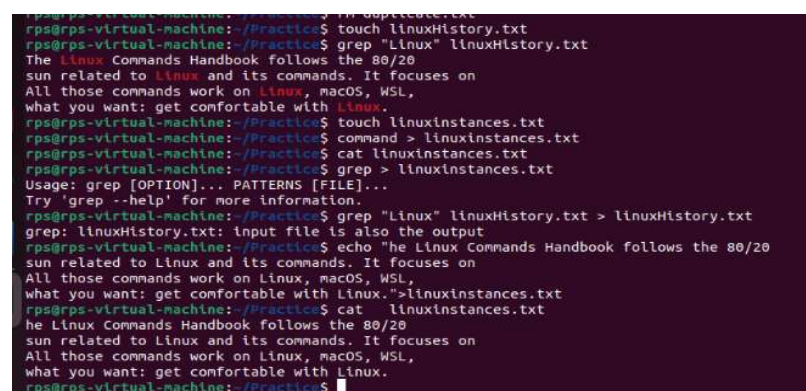
Task 3: Using grep to Search within Files

Objective: Utilize grep to search text within files.

Action Items:

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$ touch duplicate.txt
rps@rps-virtual-machine:~/Practice$ touch linuxHistory.txt
rps@rps-virtual-machine:~/Practice$ grep "Linux" linuxHistory.txt
The Linux Commands Handbook follows the 80/20
sun related to Linux and its commands. It focuses on
All those commands work on Linux, macOS, WSL,
what you want: get comfortable with Linux.
rps@rps-virtual-machine:~/Practice$ touch linuxinstances.txt
rps@rps-virtual-machine:~/Practice$ command > linuxinstances.txt
rps@rps-virtual-machine:~/Practice$ cat linuxinstances.txt
rps@rps-virtual-machine:~/Practice$ grep > linuxinstances.txt
Usage: grep [OPTION]... PATTERNS [FILE]...
Try 'grep --help' for more information.
rps@rps-virtual-machine:~/Practice$ grep "Linux" linuxHistory.txt > linuxinstances.txt
grep: linuxHistory.txt: input file is also the output
rps@rps-virtual-machine:~/Practice$ echo "he Linux Commands Handbook follows the 80/20
sun related to Linux and its commands. It focuses on
All those commands work on Linux, macOS, WSL,
what you want: get comfortable with Linux.">linuxinstances.txt
rps@rps-virtual-machine:~/Practice$ cat linuxinstances.txt
he Linux Commands Handbook follows the 80/20
sun related to Linux and its commands. It focuses on
All those commands work on Linux, macOS, WSL,
what you want: get comfortable with Linux.
rps@rps-virtual-machine:~/Practice$
```

Task 4: Permissions and Ownership

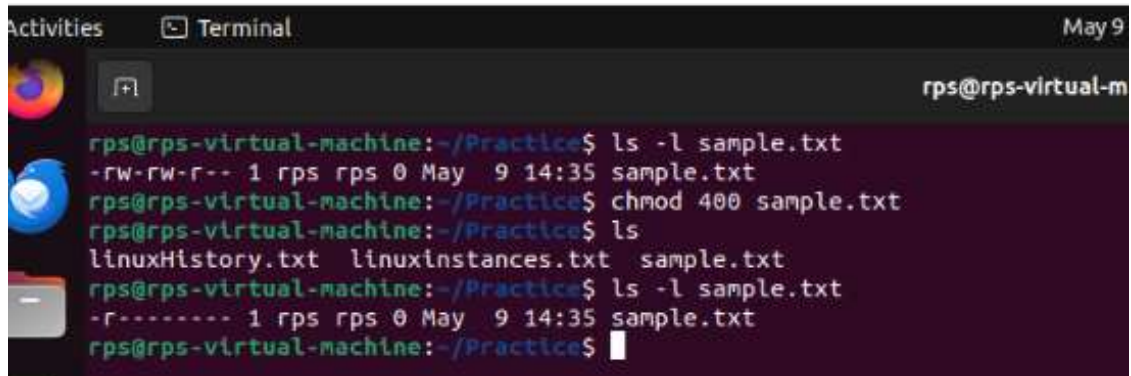
Objective: Understand and modify file permissions and ownership.

Action Items:

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).

A terminal window titled 'Terminal' with a date of 'May 9' in the top right corner. The user 'rps' is logged into a machine named 'rps@rps-virtual-m'. The terminal shows the following commands and output:

```
rps@rps-virtual-machine:~/Practice$ ls -l sample.txt
-rw-rw-r-- 1 rps rps 0 May  9 14:35 sample.txt
rps@rps-virtual-machine:~/Practice$ chmod 400 sample.txt
rps@rps-virtual-machine:~/Practice$ ls
linuxHistory.txt  linuxinstances.txt  sample.txt
rps@rps-virtual-machine:~/Practice$ ls -l sample.txt
-r----- 1 rps rps 0 May  9 14:35 sample.txt
rps@rps-virtual-machine:~/Practice$
```