1. Compress a file by compress, gzip, zip commands and decompress it again. State the differences between compress and gzip commands.

compress -v file.txt Compress
uncompress file.txt.Z Decompress

gzip file.txt Compress
gunzip file.txt.gz Decompress

zip file.zip file.txt Compress
unzip file.zip Decompress

compress uses LZW algorithm while gzip uses DEFLATE gzip is more efficient and widely used

2. What is the command used to view the content of a compressed file.

zcat file.gz

3. Backup /etc directory using tar utility.

tar -czvf etc_backup.tar.gz /etc
tar -xzvf etc_backup.tar.gz

4. Starting from your home directory, find all files that were modified in the last two day.

find ~ -type f -mtime -2

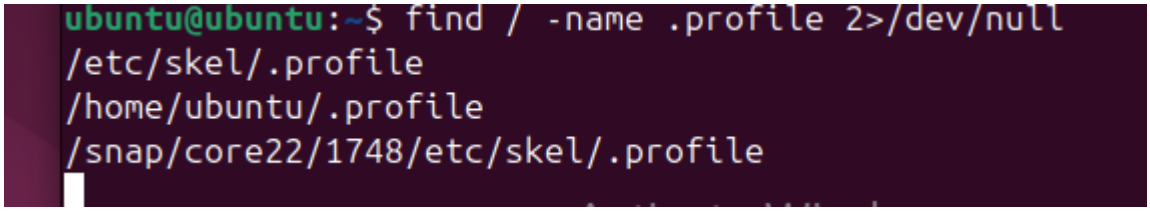
5. Starting from /etc, find files owned by root user.

find /etc -type f -user root

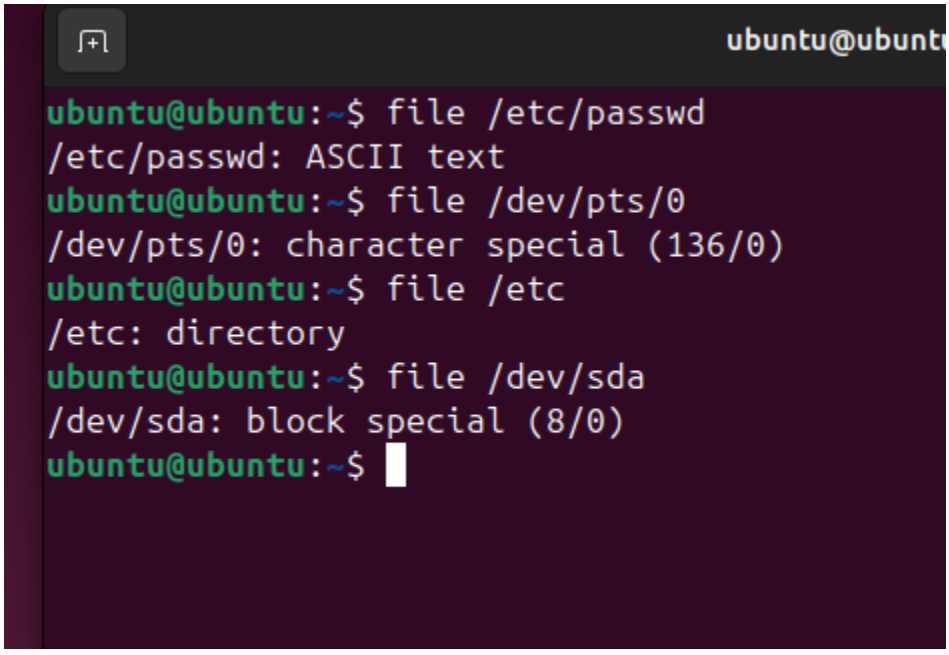
6. Find all directories in your home directory.

find ~ -type d

7. Write a command to search for all files on the system, its name is ".profile".



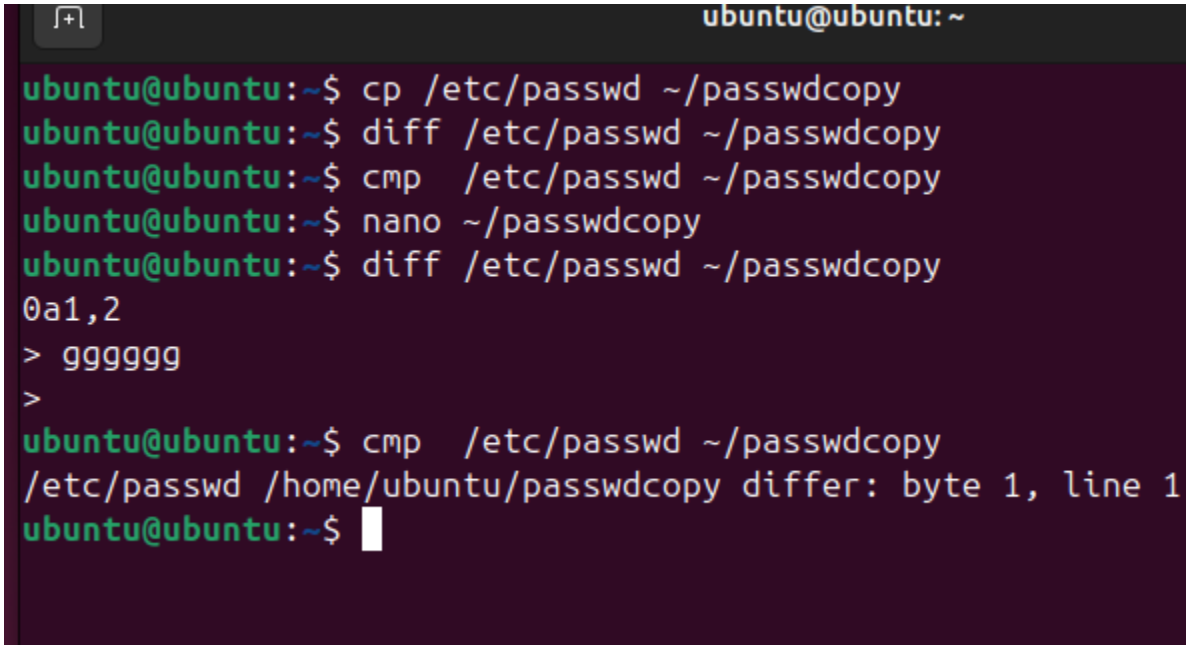
8. Identify the file types of the following: /etc/passwd, /dev/pts/0, /etc, /dev/sda



9. List the inode numbers of /, /etc, /etc/hosts.

-ls -i / /etc /etc/hosts

10. Copy /etc/passwd to your home directory, use the commands diff and cmp, and Edit in the file you copied, and then use these commands again, and check the output.



11. Create a symbolic link of /etc/passwd in /boot.

sudo ln -s /etc/passwd /boot/passwdlink

12. Create a hard link of /etc/passwd in /boot. Could you? Why?

sudo ln /etc/passwd /boot/passwd_hardlink
No , /boot is on separate file system