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

🡪 compress produces .z files , while gzip produces .gz files , and gzip has higher compression rate compared to compress command

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

🡪zcat filename.gz

1. Backup /etc directory using tar utility.

🡪tar -cvf backup /etc

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

🡪 find –mtime-2

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

🡪 find /etc –user student

1. Find all directories in your home directory.

🡪find ~ -type d

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

🡪find / –name profile

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

🡪find -type /etc/passwd

/dev/pts/0

/etc

/dev/sda

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

🡪ls -i /

/etc

/etc/hosts

1. 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.

🡪cp /etc/passwd ~/

Diff /etc/passwd ~/passwd

Cmp /etc/passwd ~/passwd

Gedit ~/passwd

Diff /etc/passwd ~/passwd

Cmp /etc/passwd ~/passwd

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

🡪ln -s /etc/passwd /boot/passwd symbolic

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

🡪ln /etc/passwd /boot/passwd hardddd