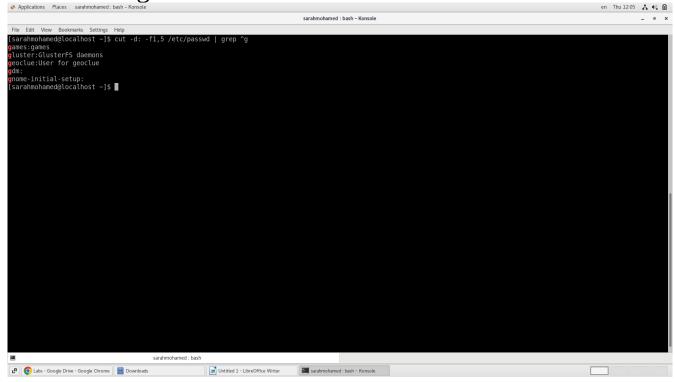
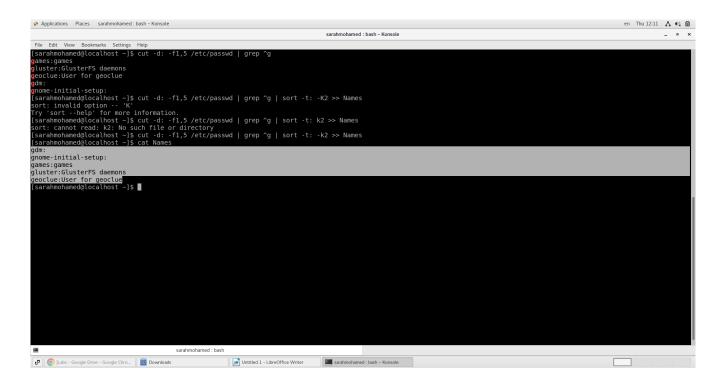
### Lab 4

4. Get the logins name and full names (comment) of logins starts with "g".

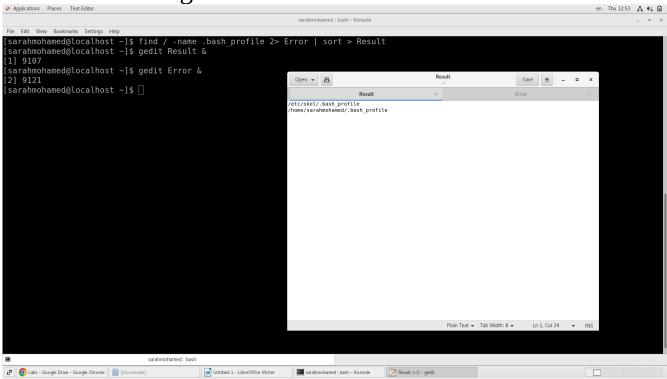


5. Save the output of the last command sorted by their full names in a file.



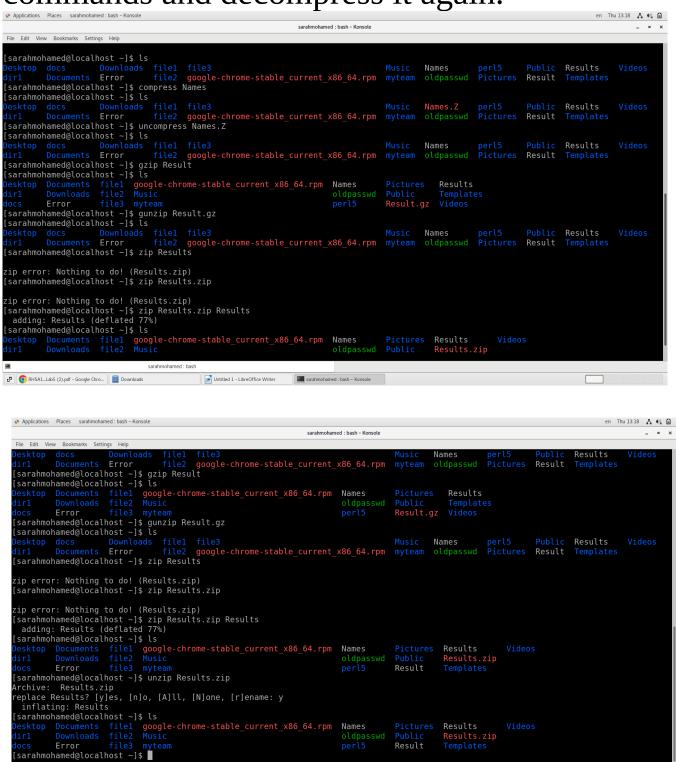
#### 6. Write two commands:

Second: sorts the output of ls command on / recursively, Saving their output and error in 2 different files and sending them to the background.



### Lab 5

1. Compress a file by compress, gzip, zip commands and decompress it again.



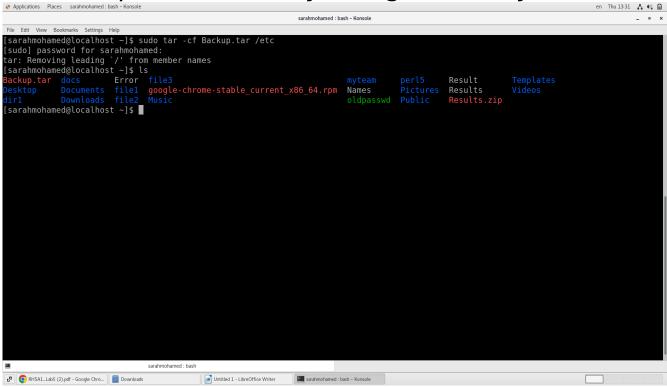
sarahmohamed : bash

Untitled 1 - LibreOffice Writer sarahmohamed : bash - Konsole

P RHSA1\_Lab5 (2).pdf - Google Chro...

# State the differences between compress and gzip commands

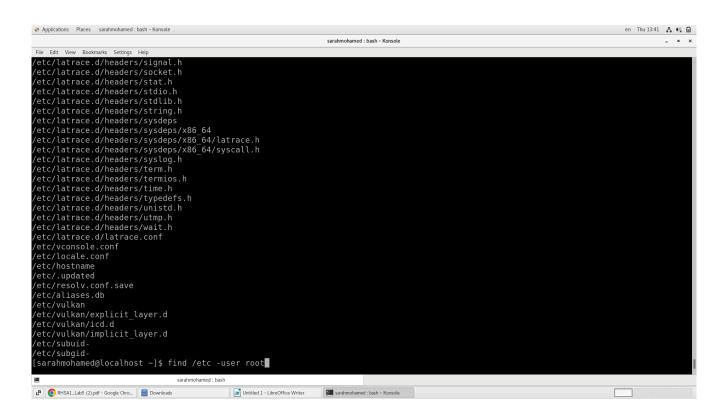
- => gzip provides better compression and decompression speeds than compress.
- 2. What is the command used to view the content of a compressed file.
- => zcat, bzcat
- 3. Backup /etc directory using tar utility.



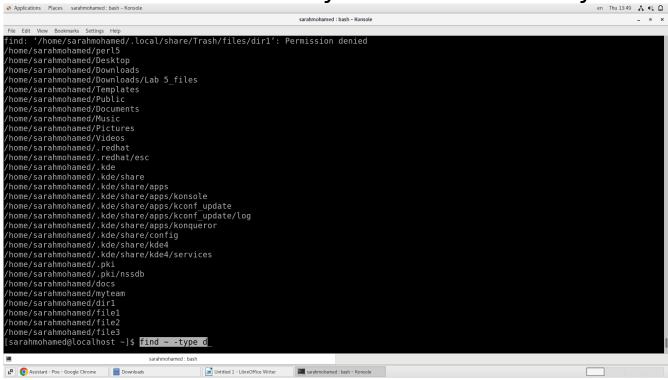
## 4. Starting from your home directory, find all files that were modified in the last two day.

```
Applications Places sarahmohamed : bash – Konsole
                                                                                                                                                                                                                                                                                                                                                                           en Thu 13:38 🛔 👊 🔒
                                                                                                                                                                                      sarahmohamed : bash = Konsole
                                                                                                                                                                              63 Aug 2 00:28 /home/sarahmohamed/.kde/share/config/libkcal_htmlexportrc 22 Aug 2 00:28 /home/sarahmohamed/.kde/share/kde4 6 Aug 2 00:28 /home/sarahmohamed/.kde/share/kde4/services 21 Aug 2 00:28 /home/sarahmohamed/.kde/tmp-localhost.localdomain -> /tmp/l
17058553
                                                                               2 sarahmohamed sarahmohamed 1 sarahmohamed sarahmohamed
                                0 drwx----
                                  0 lrwxrwxrwx
33630788
33630794 0 lrwxrwxrwx 1 sara
n/user/1000/ksocket-sarahmohamed
542928 0 drwx----
                                                                               1 sarahmohamed sarahmohamed
                                                                                                                                                                                    35 Aug 2 00:28 /home/sarahmohamed/.kde/socket-localhost.localdomain -> /ru
                                                                                                                                     rahmohamed mohamed 55 Aug 3 11:57 /home/sarahmohamed/.pki mohamed 453 Aug 2 00:34 /home/sarahmohamed/.pki/nssdb/pkcsll.txt mohamed 9216 Aug 2 00:34 /home/sarahmohamed/.pki/nssdb/pkcsll.txt mohamed 11264 Aug 2 00:34 /home/sarahmohamed/.pki/nssdb/cert9.db mohamed 35 Aug 2 13:15 /home/sarahmohamed/docs/mycv mahmohamed 12288 Aug 2 13:04 /home/sarahmohamed/docs/mycv mahmohamed 12288 Aug 2 13:04 /home/sarahmohamed/docs/mycv.swp almohamed 3471 Aug 2 01:08 /home/sarahmohamed/oldpasswd mohamed 4664 Aug 3 12:31 /home/sarahmohamed/lossh history almohamed 183 Aug 2 17:40 /home/sarahmohamed/.bash history almohamed 3181 Aug 3 12:19 /home/sarahmohamed/.bashrc mohamed 1831 Aug 3 12:19 /home/sarahmohamed/.bashrc mohamed 1831 Aug 3 12:19 /home/sarahmohamed/.bashrc mohamed 6 Aug 3 13:11 /home/sarahmohamed/.bashrc mohamed 1831 Aug 3 12:19 /home/sarahmohamed/.bashrc mohamed 6 Aug 3 13:11 /home/sarahmohamed/.bashrc mohamed 6 Aug 3 13:13 /home/sarahmohamed/.bashrc mohamed 6 Aug 3 13:13 /home/sarahmohamed/.bashrc mohamed/.bashrc mohamed/.bashrc mohamed/.bashrc mohamed/.bash
                                                                               3 sarahmohamed sarahmohamed
                                                                                                                                                                                    19 Aug 2 00:34 /home/sarahmohamed/.pki
                             0 drwx-----
                                                                               sarahmohamed sarahmohamed
                                                                        1 sarahmohamed sarahmohamed
1 sarahmohamed sarahmohamed
                         12 -rw-----
17067281
                                                                              2 sarahmohamed sarahmohamed
17077792
17067282
                                                                                1 sarahmohamed sarahmohamed
                                                                               1 sarahmohamed sarahmohamed 2 sarahmohamed
                                  0 dr----
34418149
                                                                        1 sarahmohamed sarahmohamed
                                                                         1 sarahmohamed sarahmohamed
34120529
976163
60157
                                  0 dr-x----
                                                                        2 sarahmohamed sarahmohamed
1 sarahmohamed sarahmohamed
                                                                          1 sarahmohamed sarahmohamed
                                                                          {f 1} sarahmohamed sarahmohamed
127 116 -rw-rw-r--
34223471 0 drwxrwxr-x
                                                                        1 sarahmohamed sarahmohamed
                                                                              2 sarahmohamed sarahmohamed
2 sarahmohamed sarahmohamed
 50455535
885705
582915
                                                                                sarahmohamed sarahmohamed
                                                                          {\tt 1} sarahmohamed sarahmohamed
582916
                             4 -rw-rw-r--
                                                                         1 sarahmohamed sarahmohamed
 885709
                                                                          1 sarahmohamed sarahmohamed
                                                                          1 sarahmohamed sarahmohamed
 885707 43720 -rw-r--r--
                                                                                                          root
   sarahmohamed@localhost \sim]$ find \sim -mtime -2 -ls
                                                                                                                                                                                  sarahmohamed : bash - Konsole
 ₽ O How To Find Files Modified In The _ ☐ Downloads
                                                                                                                       Untitled 1 - LibreOffice Writer
```

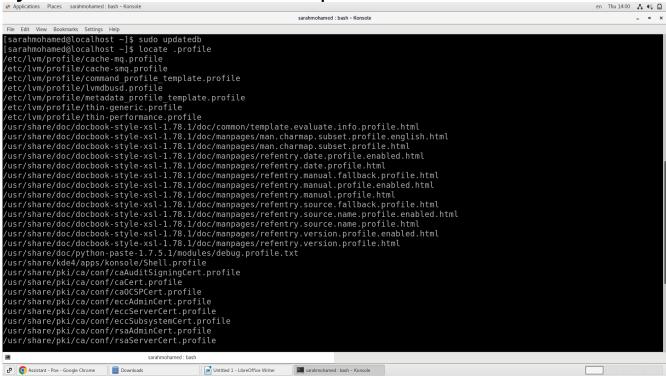
### 5. Starting from /etc, find files owned by root user.



6. Find all directories in your home directory.



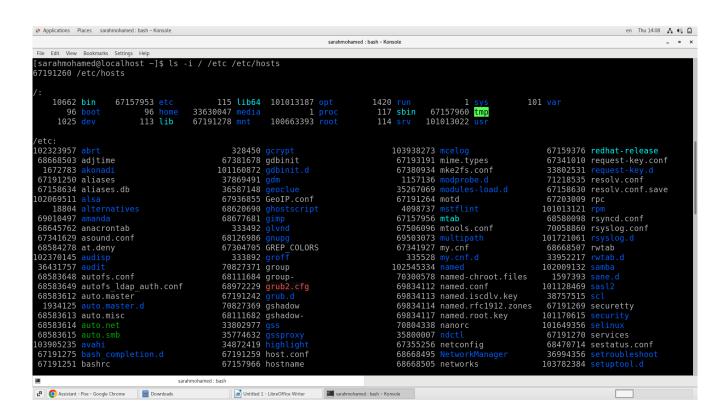
7. Write a command to search for all files on the system that, its name is ".profile".



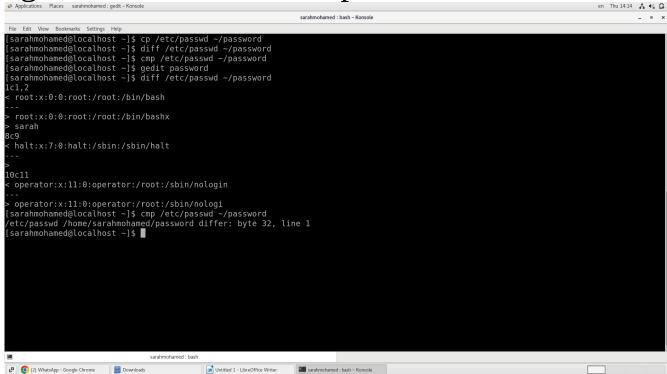
## 8. Identify the file types of the following: /etc/passwd, /dev/pts/0, /etc, /dev/sda

- /etc/passwd: This is a text file containing information about the system's users and is typically used for authentication.
- /dev/pts/0: This is a character device file representing a terminal.
- /etc: This is a directory containing system configuration files.
- /dev/sda: This is a block device file representing a hard disk drive.

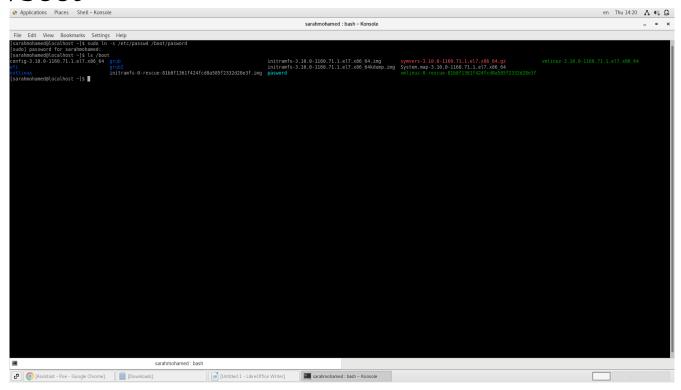
### 9. List the inode numbers of /, /etc, /etc/hosts



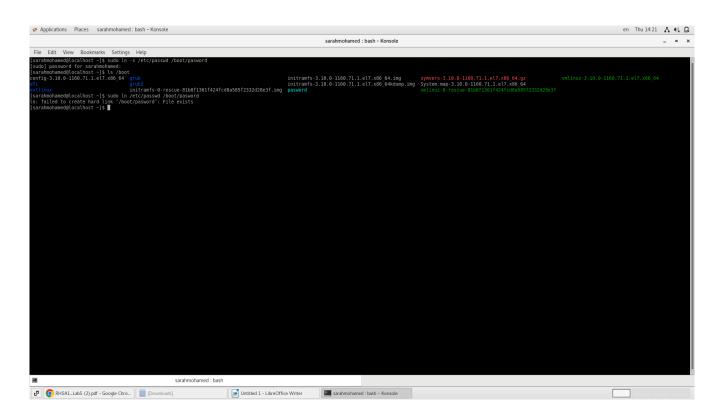
10. Copy /etc/passwd to your home directory, use the commands diff and cmp, and Edit in the file you copied, and then use these commands again, and check the output.



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



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



I cannot create a hard link of /etc/passwd in the /boot directory because hard links can only be created between files on the same file system, and /etc and /boot are typically on separate file systems.