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Lab-4

1. List the user commands and redirect the output to /tmp/commands.list

```
sok ~ 13:18 ls /usr/bin/ > /tmp/commands.list
sok ~ 13:20 |
```

2. Count the number of user commands

```
sok ~ 13:20 cat /tmp/commands.list | wc -l
1692
```

3. Get all the users names whose first character in their login is 'g'.

```
sok ~ 13:23 cat /etc/passwd | grep ^g
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false

sok ~ 13:23 cat /etc/passwd | grep ^g | cut -d: -f1
games
gnats
geoclue
gnome-initial-setup
gdm
```

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

```
sok ~ 13:26 cat /etc/passwd | grep ^g | cut -d: -f1,5
games:games
gnats:Gnats Bug-Reporting System (admin)
geoclue:
gnome-initial-setup:
gdm:Gnome Display Manager
```

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

```
sok ~ 13:27 cat /etc/passwd | grep ^g | cut -d: -f1,5 | sort -k2 > ~/Desktop/sortedusers
```

```
sok ~/Desktop 13:31 cat sortedusers
```

	File: sortedusers
1	games:games
2	geoclue:
3	gnome-initial-setup:
4	gnats:Gnats Bug-Reporting System (admin)
5	gdm:Gnome Display Manager

6. Write two commands: first: to search for all files on the system that named .bash_profile. Second: sorts the output of ls command on / recursively, Saving a-

```
sok ~/Desktop 13:50 find / -name .bash_profile > ~/Desktop/find0 2> ~/Desktop/findE &  
[2] 14147
```

b-

```
12-upower.service-2wCGdV: Permission denied  
sok ~/Desktop 14:07 ls -R / | sort > ~/Desktop/ls0 2> ~/Desktop/lsE &
```

7. Display the number of users who is logged now to the system.

```
sok ~/Desktop 14:09 who | wc -l  
1
```

8. Display lines 7 to line 10 of /etc/passwd file

```
sok ~/Desktop 14:11 head -n 10 /etc/passwd |tail -n 3
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
```

9. What happens if you execute:

-cat filename1 | cat filename2

cat the second file

-ls | rm

Deletes the files listed by ls + dirs if -r

-ls /etc/passwd | wc -l

count the lines in the output from the ls etc/passwd

10. Issue the command sleep 100.

```
sok ~/Desktop 14:50 sleep 100
```

11. Stop the last command.

Ctrl + z

```
sok ~/Desktop 14:53 kill -SIGSTOP 17710

sok ~/Desktop 14:54 jobs -l
[1]+ 17710 Stopped (signal)      sleep 1000
[2]- 17835 Stopped              sleep 1000

sok ~/Desktop 14:54
```

12. Resume the last command in the background

12.Resume the last command in the background

```
sok ~/Desktop 14:55 kill -SIGCONT 17710

sok ~/Desktop 14:55 jobs -l
[1]- 17710 Running      sleep 1000 &
[2]+ 17835 Stopped      sleep 1000

sok ~/Desktop 14:55
```

13.Issue the jobs command and see its output.

```
sok ~/Desktop 14:56 jobs
[1]-  Running      sleep 1000 &
[2]+  Stopped      sleep 1000

sok ~/Desktop 14:57
```

14.Send the sleep command to the foreground and send it again to the background.

```
sok ~/Desktop 14:56 jobs
[1]-  Running      sleep 1000 &
[2]+  Stopped      sleep 1000

sok ~/Desktop 14:57 fg "%sleep"
bash: fg: sleep: ambiguous job spec

sok ~/Desktop 14:57 fg %1
sleep 1000
```

```
[1]+  Stopped      sleep 1000

sok ~/Desktop 14:58 bg %1
[1]+ sleep 1000 &

sok ~/Desktop 14:58 jobs
[1]-  Running      sleep 1000 &
[2]+  Stopped      sleep 1000

sok ~/Desktop 14:58
```

15. Kill the sleep command.

```
sok ~/Desktop 14:58 kill %1
[1]- Terminated sleep 1000

sok ~/Desktop 14:59 jobs
[2]+ Stopped sleep 1000

sok ~/Desktop 14:59 kill
kill killall killall5

sok ~/Desktop 14:59 kill %2
[2]+ Terminated sleep 1000

sok ~/Desktop 14:59 jobs

sok ~/Desktop 14:59 |
```

16. Display your processes only

```
tasks_rude_kthread]

sok ~/Desktop 15:01 ps -u sok | more |
```

```
15088 brave
16164 gedit
```

```
sok ~/Desktop 15:06 pgrep -lu sok|
```

17. Display all processes except yours

```
root 10 0.0 0.0 0 0 ? 12 09:40 0:00 \_ [mmio_p
ercpu_wq]

sok ~/Desktop 15:03 ps aux | grep -v sok | more|
```

```
18702 kworker/1:1
18826 kworker/2:2-events
```

```
sok ~/Desktop 15:06 pgrep -lv sok|
```

18. Use the pgrep command to list your processes only

```
15088 brave
16164 gedit
sok ~/Desktop 15:06 pgrep -lu sok
```

19. Kill your processes only.

Pkill -u name

