Complete lab3 and lab4

8. State the initialization files of: sh, ksh, bash

1.sh

/etc/profile ~/. profile

2. ksh

/etc/profile ~/. profile

3. bash

/etc/profile /etc/bash.bashrc ~/. profile

/etc/bash.bashrc ~/.bash_login ~/. bashrc

9. Edit in your profile to display date at login and change your prompt permanently

```
mohamed@dell:~

Wed Mar 12 01:12:39 PM EET 2025

mohamed@dell:~$ su - mohamed

Password:

Wed Mar 12 01:13:00 PM EET 2025

mohamed@dell:~$ |
```

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

```
mohamed@dell:~
mohamed@dell:~$ compgen -c > /tmp/commands.list
mohamed@dell:~$ cat /tmp/commands.list
alert
egrep
fgrep
grep
l
la
ll
ls
if
then
else
elif
fi
```

2. Count the number of user commands

```
mohamed@dell:~

mohamed@dell:~$ wc -l /tmp/commands.list

3986 /tmp/commands.list

mohamed@dell:~$ |
```

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

```
mohamed@dell:~$ sudo find /etc -name passwd -exec cat {} \; | grep '^g' | cut -d: -f1
games
geoclue
gnome-remote-desktop
gnome-initial-setup
gdm
```

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

```
mohamed@dell:~$ sudo find /etc -name passwd -exec cat {} \; | grep '^g' | cut -d: -f1,5
games:games
geoclue:
gnome-remote-desktop:GNOME Remote Desktop
gnome-initial-setup:
gdm:Gnome Display Manager
mohamed@dell:~$ |
```

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

```
mohamed@dell:~$ who | wc -l
2
mohamed@dell:~$ |
```

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

```
mohamed@dell:~$ sed -n '7,10p' /etc/passwd
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
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
mohamed@dell:~$
```

- 9. What happens if you execute:
 - cat filename1 | cat filename2 > will not do anything useful because it won't receive anything from the first cat.
 - ls | rm > this command may not delete anything because rm is receiving input through stdin and typically expects file arguments, not input through a pipe.

• ls /etc/passwd | wc -l

```
mohamed@dell:~
mohamed@dell:~$ ls /etc/passwd | wc -l

mohamed@dell:~$ ls /etc/passwd
/etc/passwd
mohamed@dell:~$ |
```

10. Issue the command sleep 100.

Can stop terminal for 100 seconds

11. Stop the last command

By using (CTRL + z)

12. Resume the last command in the background

By using (gedit &)

13. Issue the jobs command and see its output

displays a list of background jobs that are currently running in the shell.

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

For background > by using (gedit &)

For foreground > by using (fg % job number)

15. Kill the sleep command

By using > kill -9 processes id

```
mohamed@dell:~

[1]- Killed sleep 50

mohamed@dell:~$
```

16. Display your processes only

```
App Center :11:~$ top -u $(whoami)
top - 14:49:13 up 1:55, 1 user, load average: 0.05, 0.16, 0.19
                                            1 stopped, 0 zombie
Tasks: 303 total, 1 running, 301 sleeping,
%Cpu(s):  0.2 us,  0.2 sy,  0.0 ni, 99.7 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :
           3866.7 total,
                           1127.8 free,
                                          1253.4 used, 1763.1 buff/cache
MiB Swap:
           3741.0 total,
                           3741.0 free,
                                                         2613.3 avail Mem
                                             0.0 used.
                           VIRT
                                                                 TIME+ COMMAND
   PID USER
                 PR NI
                                   RES
                                          SHR S %CPU %MEM
                 20
  3000 mohamed
                      0
                         398044
                                  8060
                                          7036 S
                                                        0.2
                                                               0:00.45 gvfs-afc-volume
  2292 mohamed
                 20
                      0
                          21120
                                 12620
                                         9544 S
                                                  0.0
                                                        0.3
                                                              0:01.09 systemd
  2296 mohamed
                     0
                          21460
                                  3676
                                         1856 S
                                                        0.1
                                                              0:00.00 (sd-pam)
                 20
                                                  0.0
                  9 - 11 124512 15224
                                         8988 S
  2306 mohamed
                                                  0.0
                                                        0.4
                                                              0:20.85 pipewire
  2312 mohamed
                 20
                     0 106404
                                  5772
                                         5004 S
                                                  0.0
                                                        0.1
                                                              0:00.02 pipewire
  2316 mohamed
                  9 - 11 415456 18512 13648 S
                                                        0.5
                                                              0:00.36 wireplumber
                                                  0.0
                  9 -11 124672 13556
  2318 mohamed
                                         9484 S
                                                              0:00.24 pipewire-pulse
                                                        0.3
                                                  0.0
                                                              0:01.02 dbus-daemon
  2321 mohamed
                          11032
                                  6756
                                         4580 S
                                                  0.0
                                                        0.2
  2326 mohamed
                                 10148
                                         9124 S
                                                        0.3
                                                              0:00.10 gnome-keyring-d
                 20
                                                  0.0
                     0 693724
                                         6780 S
                                                              0:00.07 xdg-document-po
  2360 mohamed
                 20
                                  7420
                                                  0.0
                                                        0.2
  2373 mohamed
                 20
                         317976
                                  5956
                                         5572 S
                                                  0.0
                                                        0.2
                                                              0:00.01 xdg-permission-
  2406 mohamed
                 20
                      0
                         244336
                                  6044
                                          5660 S
                                                  0.0
                                                        0.2
                                                               0:00.00 gdm-wayland-ses
                                        14712 S
  2411 mohamed
                 20
                     0
                         306876
                                 16632
                                                  0.0
                                                        0.4
                                                              0:00.04 gnome-session-b
```

17. Display all processes except yours

```
<mark>⊓ohamed@dell:~</mark>$ pgrep -v -a -u $(whoami)
1 /sbin/init splash
2 [kthreadd]
3 [pool_workqueue_release]
4 [kworker/R-rcu_gp]
5 [kworker/R-sync_wq]
6 [kworker/R-slub_flushwq]
7 [kworker/R-netns]
10 [kworker/0:0H-events_highpri]
11 [kworker/u512:0-ipv6_addrconf]
12 [kworker/R-mm_percpu_wq]
13 [rcu_tasks_kthread]
14 [rcu_tasks_rude_kthread]
15 [rcu_tasks_trace_kthread]
16 [ksoftirqd/0]
17 [rcu_preempt]
18 [rcu_exp_par_gp_kthread_worker/1]
19 [rcu_exp_gp_kthread_worker]
20 [migration/0]
```

18. Use the pgrep command to list your processes only

```
mohamed@dell:~$ pgrep -u $(whoami)
2292
2296
2306
2312
2316
2318
2321
2326
2360
2373
2406
2411
```

19. Kill your processes only.

By using > pkill -u \$(whoami)

This appeared after killing my processes

