• Section 2:

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

```
yara@yara:~$ compgen -c > /tmp/commands.list
yara@yara:~$ cat /tmp/commands.list
alert
едгер
fgrep
дгер
la
u
ls
if
then
else
elif
fi
case
esac
for
select
while
until
do
done
in
function
```

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

3. What is the command to count the word wc [OPTION]... [FILE]...

set PATH so it includes user's private bin if it exists
if [-d "\$HOME/bin"] ; then
 PATH="\$HOME/bin:\$PATH"
fi

set PATH so it includes user's private bin if it exists
if [-d "\$HOME/.local/bin"] ; then
PATH="\$HOME/.local/bin:\$PATH"

gnome-terminal & disown date

".profile" 29L, 836B

```
yara@yara:~$ wc /tmp/commands.list
3924 3924 41368 /tmp/commands.list
yara@yara:~$ []
```

29,4

4. What happens

piping

a. cat filename1 | cat filename2it will show the text in filename2 , because the second command takes all it's arguments and ignore what before

```
yara@yara:~$ cat file1.txt
hello1
yara@yara:~$ cat file2.txt
hello2
yara@yara:~$ cat file1.txt | cat file2.txt
hello2
yara@yara:~$ [
```

b. Is | rm

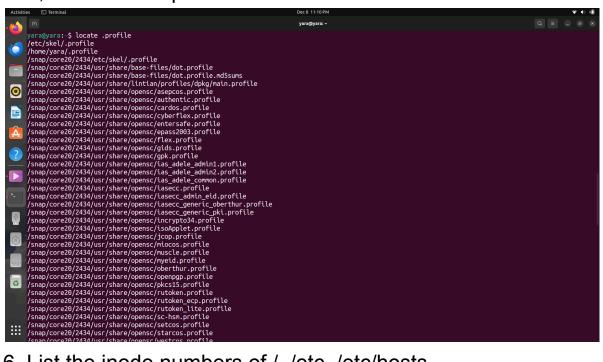
this command shows error because the formatting rm taking arguments doesn't match what comes out of Is

```
yara@yara:~$ ls | rm
rm: missing operand
Try 'rm --help' for more information.
yara@yara:~$ rm --help
Usage: rm [OPTION]... [FILE]...
```

c. ls /etc/passwd | wc -l

```
yara@yara:~$ ls /etc/passwd | wc -l
yara@yara:~$ wc -l --help
Usage: wc [OPTION]... [FILE]...
  or: wc [OPTION]... --files0-from=F
Print newline, word, and byte counts for each FILE, and a total line if more than one FILE is specified. A word is a non-zero-length sequence of
characters delimited by white space.
With no FILE, or when FILE is -, read standard input.
The options below may be used to select which counts are printed, always in
the following order: newline, word, character, byte, maximum line length.
  -c, --bytes
                           print the byte counts
  -m, --chars
                           print the character counts
  -l, --lines
       --lines print the newline counts
--files0-from=F read input from the files specified by
                               NUL-terminated names in file F;
                               If F is - then read names from standard input
```

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



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

```
vara@yara:~$ ls -i /
12 <mark>bin</mark>
                                                                                     13 lib 16
14 lib32 11
15 lib64 3670017
                                                                                                                                                                                                                                                                               262145 tmp
                                                                                                                                                                  3801089 mnt
                                                                                                                                                                                                      1048577 root
                                                                                                                                                                                                                                        3932161 snap
 1310721 boot
                                      2621441
                                                                                                                                                                  4718593
5767169
                                     3276801
                                                                                                                                                                                                                  17 sbin
                                                                                                                                                                                                                                                                            4194305
                                                                                                                                               2621505 kernel
2622775 kernel-img.conf
2621612 kerneloops.conf
                                                                                                                                                                                                                                                                    2621642 shadow-
2621654 shells
2621550 skel
                                                                                        2621593 e2scrub.conf
 2621578 adduser.conf
2621449 alsa
                                                                                                                                                                                                               2621523 opt
2621639 os-release
                                                                                                                                                                                                                                                                     2621551
  2621450
                                                                                                                                               2621508
  2621579 anacrontab
2621580 apg.conf
2621451 apm
                                                                                       2621595 ethertypes
2621483 firefox
2621484 fonts
                                                                                                                                               2623411 ld.so.cache
2621614 ld.so.conf
2621507 ld.so.conf
                                                                                                                                                                                                               2621640 pam.conf
2621524 pam.d
                                                                                                                                                                                                                                                                    2621552
2621553
                                                                                                                                                                                                                2621641 papersize
                                                                                                                                                                                                                                                                      2621554
                                                                                       2621596 fprintd.conf
2621442 fstab
2621597 fuse.conf
                                                                                                                                               2621615 legal
2621616 libao.conf
2621617 libaudit.conf
                                                                                                                                                                                                                                                                    2624435 subgid
2621656 subgid-
2624434 subuid
  2621452
  2621581 appstream.conf
2621455 apt
                                                                                       2621485 fwupd
2621598 gai.conf
                                                                                                                                               2621509
2621510
                                                                                                                                                                                                                                                                    2624429 subuid-
2621657 sudo.conf
2621659 sudoers
                                                                                        2621486
                                                                                                                                               2621511
                                                                                                                                              2621511 Libroffice
2621512 Libroffice
2621618 locale.alias
2624420 locale.gen
2621620 localtime
2621513 logcheck
  2621582 bash.bashrc
2621583 bash_completion
                                                                                       2621487
2621488
                                                                                                                                                                                                               2621643 pnm2ppa.conf
2621529 polkit-1
                                                                                                                                                                                                                                                                    2621556 sudoers.d
2621658 sudo_logsrvd.conf
                                                                                                                                                                                                                                                                    2621660 sysctl.conf
2621557 sysctl.d
2621558 systemd
2621559 terminfo
                                                                                                                                                                                                                2621530
                                                                                                                                                                                                               2621950 prime-discrete
2622142 printcap
2621644 profile
  2621584 bindresvport.blacklist
2621458 binfmt.d
                                                                                       2622704 gitconfig
2621490 glvnd
  2621459 bluetooth
2621585 brlapi.key
2621460 brltty
2621586 brltty.conf
                                                                                                                                               2621621 login.defs
2621622 logrotate.conf
2621514 logrotate.d
2621623 lsb-release
                                                                                        2621491
                                                                                       2621492 groff
2623423 group
                                                                                                                                                                                                               2621531 profile.d
2621645 protocols
                                                                                        2621600 group.
                                                                                                                                                                                                                                                                     2621661 timezone
                                                                                                                                              2621623 lsb-release
2621624 machine-id
2621625 magic
2621626 magic.nime
2621811 mailcap
2621628 mailcap.order
2621629 manpath.config
2621630 mime.types
2621631 mkeZfs.conf
                                                                                                                                                                                                                                                                    2621561 timezone
2621562 tmpfiles
2621563 ubuntu-a
2621662 ucf.conf
2621564 udev
2621564 udev
  2621461 ca-certificates
2622126 ca-certificates
2622126 ca-certificates.conf
2621587 ca-certificates.conf.dpkg-old
                                                                                       2621493 grub.d
2623225 gshadow
                                                                                                                                                                                                               2621533
2621534
                                                                                                                                                                                                                                                                     2621566
                                                                                      2621490 gMr-510
2621601 hdparm.conf
2621602 host.conf
2621603 hostid
2621604 hostname
2621605 hosts
                                                                                                                                                                                                                                                                    2623320 updatedb.conf
2621567 update-manager
  2621468
                                                                                                                                               2621443
                                                                                                                                                                                                                                                                     2621568
                                                                                                                                               2621516 modprob
2621632 modules
```

yara@yara:~\$ ls -i /etc/hosts
2621605 /etc/hosts

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

```
yara@yara:~$ ln -s /etc/passwd /boot/passwd_link
ln: failed to create symbolic link '/boot/passwd_link': Permission denied
yara@yara:~$ sudo ln -s /etc/passwd /boot/passwd_link
yara@yara:~$ ls -l /boot/passwd_link
lrwxrwxrwx 1 root root 11 Dec 8 23:17 /boot/passwd_link -> /etc/passwd
yara@yara:~$ []
```

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

Yes I could, because memory in my device not split into 2 devices

```
yara@yara:~$ sudo ln /etc/passwd /boot/passwd_hardlink
yara@yara:~$ ls -i /etc/passwd /boot/passwd_hardlink
2623228 /boot/passwd_hardlink 2623228 /etc/passwd
yara@yara:~$
```

9. Echo \, change the prompt from ">" to ":".

```
yara@yara:~$ vim .bashrc
yara@yara:~$ source .bashrc
yara@yara:~$ echo \
: [
```

```
| Dock | 11399M | Part | P
```