

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

```
sofar@sofar:~$ history > /tmp/commands.list
sofar@sofar:~$ cat /tmp/commands.list
439 touch abconfig
440 ls c*
441 rm configraction abconfig
442 clear
443 ls
444 rm -r dir1/
445 ls
446 type cat
447 history
448 clear
449 type man
450 whatis man
451 whatis can
452 whatis cat
453 history
454 clear
455 git ap upgrade
456 git apt-grt upgrade
457 git apt-get upgrade
458 git get-apt upgrade
```

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

```
92 alias la='ls -A'
93 alias l='ls -CF'
94
95 # Add an "alert" ali
96 # sleep 10; alert
97 alias alert='notify-
  \s*alert$/\'')"'
98
99 # Alias definitions.
100 # You may want to pu
101 # ~/.bash_aliases, i
102 # See /usr/share/doc
103
104 if [ -f ~/.bash_alia
105 . ~/.bash_aliases
106 fi
107
108 # enable programmabl
109 # this, if it's alre
110 # sources /etc/bash.
111 if ! shopt -oq posix
112 if [ -f /usr/share
113 . /usr/share/bas
114 elif [ -f /etc/bas
115 . /etc/bash_comp
116 fi
117 fi
118
119
120 date
```

sofar@sofar: ~

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sofar@sofar:~\$

il -n1|sed -e '\s/^[s\*[0-9]\+\s\*//;s/[:&|]

sh Tab Width: 8 Ln 120, Col 5 INS

3. What is the command to count the word in a file or number of file in directory.

wc command

a. Count the number of user commands : history | wc

4. What happens if you execute:

a. cat filename1 | cat filename2

it will show the content of filename2 , piping not useful , it will take the input from first cat and send it to second can .

`ls | rm :`

it's an error because the rm take names as arguments not as list of files.

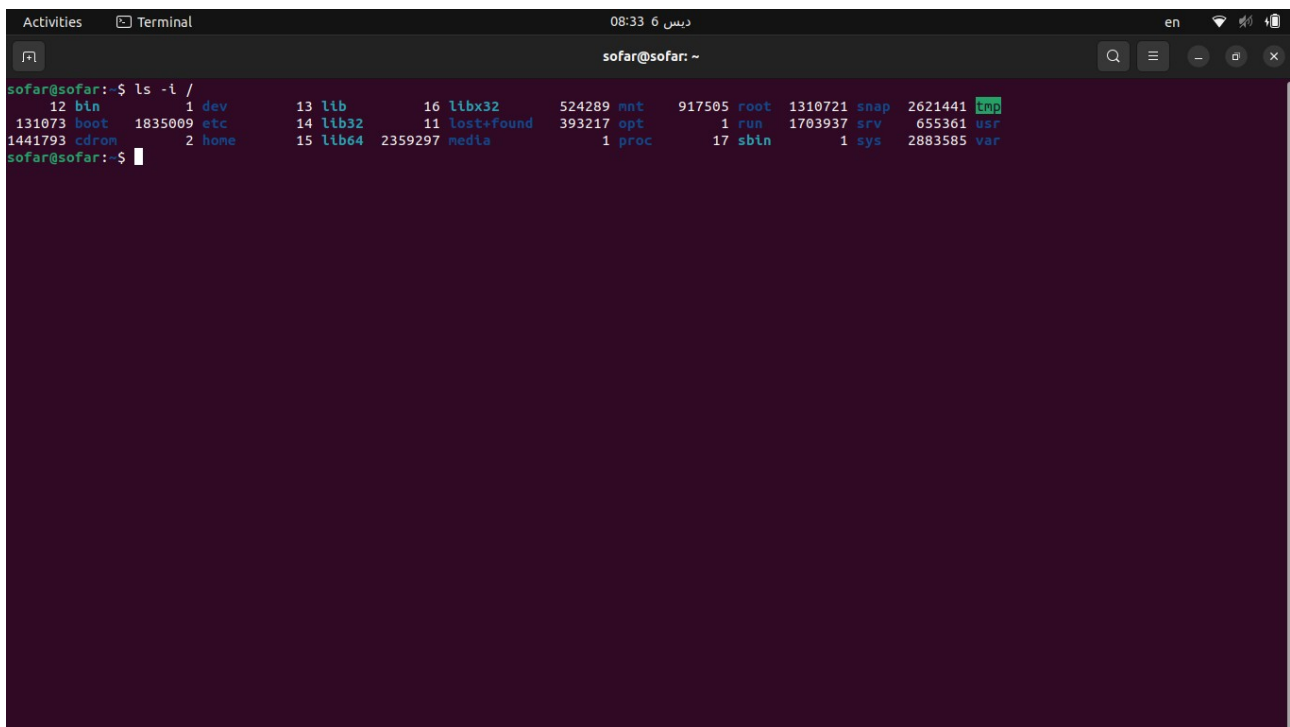
`Ls /etc | wc -l`

`Ls /etc/passwd` will send the path to `wc -l` so the output will be one .

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

`Find / -iname .profile`

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



```
sofar@sofar:~$ ls -li /
12 bin          1 dev          13 lib          16 libx32       524289 mnt       917505 root      1310721 snap    2621441 tmp
131073 boot      1835009 etc         14 lib32        11 lost+found   393217 opt        1 run       1703937 srv       655361 usr
1441793 cdrom    2 home        15 lib64       2359297 media        1 proc        17/sbin      1 sys       2883585 var
```

`Ls -li /`

```
Activities Terminal 08:34 6 ديس en
sofar@sofar: ~
sofar@sofar:~$ ls -l /etc/
1835016 acpi 1835161 e2scrub.conf 1836336 kernel-img.conf 1835207 os-release 1835119 snmp
1835146 adduser.conf 1835049 emacs 1835180 kerneloops.conf 1835013 PackageKit 1835120 speech-dispatcher
1835017 alsa 1835162 environment 1835076 ldap 1835208 pam.conf 1835121 ssh
1835018 alternatives 1835050 environment.d 1835080 ld.so.cache 1835092 pam.d 1835122 ssl
1835147 anacrontab 1835163 ethertypes 1835182 ld.so.conf 1835209 papersize 1835705 subgid
1835148 app.conf 1835051 firefox 1835075 ld.so.conf.d 1836784 passwd 1835224 subgid-
1835019 apn 1835052 fonts 1835183 legal 1837993 passwd- 1836760 subuid
1835020 apparmor 1835164 fprintd.conf 1835184 libao.conf 1835093 pcmcia 1837998 subuid-
1835021 apparmor.d 1835010 fstab 1835185 libaudit.conf 1835094 perl 1835225 sudo.conf
1835022 appport 1835165 fuse.conf 1835077 libblockdev 1835095 pkt 1835227 sudoers
1835149 appstream.conf 1835053 fwupd 1835078 libnl-3 1835096 pm 1835124 sudoers.d
1835023 apt 1835166 gal.conf 1835079 libpaper.d 1835211 pnm2ppa.conf 1835226 sudo_logsrvd.conf
1835024 avahi 1835054 gdb 1835080 libreoffice 1835097 polkit-1 1835228 sysctl.conf
1835150 bash.bashrc 1835055 gdm3 1835186 locale.alias 1835098 ppp 1835125 sysctl.d
1835151 bash_completion 1835056 geoclue 1835111 locale.gen 1835280 printcap 1835126 systemd
1835025 bash_completion.d 1835057 ghostscript 1835188 localtime 1835212 profile 1835127 terminfo
1835152 bindresvport.blacklist 1835058 glynd 1835081 logcheck 1835099 profile.d 1835128 thermald
1835026 binfmt.d 1835059 gnome 1835189 login.defs 1835213 protocols 1835129 thunderbird
1835027 bluetooth 1835060 groff 1835190 logrotate.conf 1835100 pulse 1835229 timezone
1835153 brlapi.key 1835221 group 1835082 logrotate.d 1835101 python3 1835101 tmpfiles.d
1835028 brltty 1835168 group- 1835191 lsb-release 1835102 python3.10 1835131 ubuntu-advantage
1835154 brltty.conf 1835061 grub.d 1835192 machine-id 1835103 rc0.d 1835132 ucf.conf
1835029 ca-certificates 1836759 gshadow 1835193 magic 1835104 rc1.d 1835132 udev
1835155 ca-certificates.conf 1837994 gshadow- 1835194 magic.mime 1835105 rc2.d 1835133 udisks2
1835156 ca-certificates.conf.dpkg-old 1835062 gss 1836221 mailcap 1835106 rc3.d 1835134 ufw
1835030 chatscripts 1835063 gtk-2.0 1835196 mailcap.order 1835107 rc4.d 1835135 update-manager
1835032 console-setup 1835064 gtk-3.0 1835197 manpath.config 1835108 rc5.d 1835136 update-motd.d
1835033 cracklib 1835169 hdparm.conf 1835198 mime.types 1835109 rc6.d 1835137 update-notifier
1835034 cron.d 1835170 host.conf 1835199 mke2fs.conf 1835110 rcS.d 1835014 UPower
1835035 cron.daily 1835171 hostid 1835011 ModemManager 1835214 resolv.conf 1835231 usb_modeswitch.conf
1835036 cron.hourly 1835172 hostname 1835012 modprobe.d 1835215 rmt 1835138 usb_modeswitch.d
1835037 cron.monthly 1835173 hosts 1835200 modules 1835216 rpc 1835570 vdpau_wrapper.cfg
1835157 crontab 1835174 hosts.allow 1835085 modules-load.d 1835217 rsyslog.conf 1835139 vin
1835038 cron.weekly 1835175 hosts.deny 1835195 mtab 1835112 rsyslog.d 1835232 vtrgb
1835040 cups 1835065 hp 1835202 nanorc 1835218 rygel.conf 1835140 vulkan
1835041 cupshelpers 1835066 ifplugd 1835203 netconfig 1835113 sane.d 1835233 wgetrc
1835042 dbus-1 1835067 init 1835086 netplan 1835114 security 1835141 wpa_supplicant
1835043 dbus 1835068 iohelp 1835087 netplan 1835115 security 1835142 wpa_supplicant
```

-Ls -i /etc

```
Activities Terminal 08:36 6 ديس en
sofar@sofar: ~
sofar@sofar:~$ ls -l /etc/hosts
1835173 /etc/hosts
sofar@sofar:~$
```

ls -i etc/hosts

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

ln -s /etc/passwd /boot

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

Yes we can

ln /etc/passwd /boot

9. Echo \ it will jump to the next line, and will print >

Notice the prompt ">" what is that? and how can you change it from ">" to ":".

NOTE: search the usage of PS1

iw will go to PS2 to change it :

PS2=": "