### **PRACTICE 3. List directories**

### 1. List the files in the current directory

Comando "Is -a"

```
adminsanti@servidorsanti:~$ cd /home/
adminsanti@servidorsanti:/home$ ls –a
. .. DATA DELETE NOMBRE PROGC SCRIPTS adminsanti
adminsanti@servidorsanti:/home$ _
```

### 2. List files ordered in columns

Comando "Is -I"

```
adminsanti@servidorsanti:/home$ ls -1
total 24
drwxr-xr-x 2 root root 4096 May 7 10:01 DATA
drwxr-xr-x 3 root root 4096 May 4 17:47 DELETE
-rw-r-r-- 1 root root 15 May 7 09:58 NOMBRE
drwxr-xr-x 2 root root 4096 May 4 17:44 PROGC
drwxr-xr-x 2 root root 4096 May 4 17:45 SCRIPTS
drwxr-xr-x 3 adminsanti adminsanti 4096 May 4 17:17 adminsanti
adminsanti@servidorsanti:/home$ _
```

#### 3. List files and the size of them

Comando "Is -sh"

```
adminsanti@servidorsanti:/home$ ls -sh
total 24K
4.OK DATA 4.OK DELETE 4.OK NOMBRE 4.OK PROGC 4.OK SCRIPTS 4.OK adminsanti
adminsanti@servidorsanti:/home$ _
```

### 4. List the value of the inode for each file

Comando "do --inode"

# 5. Show the files and directories of the / home directory and its subdirectories

Comando "Is"

first adminsanti@servidorsanti:/home\$ ls DATA DELETE NOMBRE PROGC SCRIPTS adminsanti adminsanti@servidorsanti:/home\$

### 6. Show the files in the / bin directory that begin with b

Command "cd /bin" "Is b\*"

```
adminsanti@servidorsanti:/bin$ ls b*
                                             ls b*
byobu-disable
byobu-disable-prompt
byobu-enable
byobu-enable-prompt
byobu-export
byobu-janitor
byobu-keybindings
               btrfs-convert
btrfs-find-root
btrfs-image
btrfs-map-logical
btrfs-select-super
                                                                                     byobu-quiet
byobu-reconnect-sockets
b2sum
base32
                                                                                                                           bzcmp
base64
                                                                                                                           bzdiff
                                                                                     byobu-screen
                                                                                     byobu-select-backend
byobu-select-profile
byobu-select-session
                                                                                                                           bzegrep
bash
                btrfsck
                                                                                                                           bzfgrep
                                                                                     byobu-shell
                                                                                                                           bzgrep
bzip2
                bunzip2
                                              byobu-launch
                                                                                     byobu-silent
                                              byobu-launcher
                                                                                     byobu-status
                                                                                                                           bzip2recover
                                              byobu-launcher-install
                                                                                     byobu-status-detail
                byobu
bsd-from
                                              byobu-launcher-uninstall
                                                                                     byobu-tmux
                                                                                                                           bzmore
                                              byobu-layout
                                                                                     byobu-ugraph
                                              byobu-prompt
adminsanti@servidorsanti:/bin$ _
```

7. Obtain a listing of the HOME directory in which the hidden files appear, the type of file and information related to owners, dates, etc.

```
adminsanti@servidorsanti:/home$ ls -a -l
total 32
drwxr-xr-x 7 root
                                         4096 May 7 10:01 .
                            root
                                        4096 Apr 28 11:32 ..
4096 May 7 10:01 DATA
drwxr-xr-x 20 root
                            root
drwxr–xr–x 2 root
                            root
                                         4096 May
                                                   4 17:47 DELETE
drwxr-xr-x 3 root
                            root
                                           15 May
-rw-r--r-- 1 root
                            root
                                                   7 09:58 NOMBRE
drwxr-xr-x 2 root
                                         4096 May
                                                   4 17:44 PROGC
                            root
drwxr–xr–x 2 root root 4096 May
drwxr–xr–x 3 adminsanti adminsanti 4096 May
                                                   4 17:45 SCRIPTS
                                                   4 17:17 adminsanti
adminsanti@servidorsanti:/home$ _
```

#### 8. Observe the difference between Is -I and Is -Id.

The command Is -Id displays detailed information **about a directory** without showing its content

first adminsanti@servidorsanti:/home\$ ls –ld drwxr–xr–x 7 root root 4096 May 7 10:01 .

## 9. Observe the access rights of the different files in the dir HOME.

```
adminsanti@servidorsanti:/home$ ls -l
total 24
drwxr-xr-x 2 root
                                   4096 May
                                             7 10:01 DATA
                        root
drwxr−xr−x 3 root
                                   4096 May
                                             4 17:47 DELETE
                        root
                                     15 May
-rw-r--r-- 1 root
                                             7 09:58 NOMBRE
                        root
drwxr−xr−x 2 root
                        root
                                   4096 May
                                             4 17:44 PROGC
drwxr−xr−x 2 root
                                   4096 May 4 17:45 SCRIPTS
                        root
drwxr-xr-x 3 adminsanti adminsanti 4096 May
                                             4 17:17 adminsanti
adminsanti@servidorsanti:/home$
```

## 10. Display the contents of the / usr / bin directory inverse order

El comando sería "ls -r" (older entries first)

```
pdb3.8
                                   batch
pdb3
                                   bashbug
pbputs
                                   bash
pbput
                                   basename
                                   base64
pbget
                                   base32
pathchk
patch
pastebinit
                                   awk
                                   automat-visualize3
paste
                                   atrm
partx
                                   atq
pager
                                    at
                                   arch
os-prober
openvt
                                   apt-sortpkgs
openss1
                                   apt-mark
on_ac_power
                                   apt-key
                                   apt-get
apt-ftparchive
oem-getlogs
numfmt
                                   apt-extracttemplates
                                   apt-config
ntfswipe
ntfsusermap
                                   apt-cdrom
ntfstruncate
                                   apt-cache
ntfssecaudit
                                   apt-add-repository
ntfsrecover
                                   apt
ntfsmove
                                   apropos
                                   apport-unpack
                                   apport-collect
ntfsfix
                                   apport-cli
                                   apport-bug
ntfsfallocate
                                   addpart
ntfsdecrypt
                                   add-apt-repository
ntfscmp
                                   aa-exec
ntfscat
                                   aa-enabled
ntfs-3g.probe
ntfs-3g
                                   VGAuthService
                                   NF
nsupdate
adminsanti@servidorsanti:/bin$
```

## 11. List all the files in the / etc directory that do not start with t in reverse order

Me situo en etc: "cd /etc" Comandos: ls -r [^t]\*

```
numfmt
                                  batch
ntfswipe
                                  bashbug
ntfsusermap
                                  bash
ntfstruncate
                                  basename
ntfssecaudit
                                  base64
                                  base32
ntfsrecover
                                  b2sum
ntfsmove
ntfsls
                                  automat-visualize3
ntfsinfo
ntfsfix
                                  atrm
ntfsfallocate
                                  atq
ntfsdecrypt
ntfscmp
                                  arch
ntfscluster
                                  apt-sortpkgs
ntfscat
                                  apt-mark
ntfs-3g.probe
                                  apt-key
ntfs-3g
                                  apt-get
nsupdate
                                  apt-ftparchive
nstat
                                  apt-extracttemplates
nslookup
                                  apt-config
                                  apt-cdrom
                                  apt-cache
nroff
nproc
                                  apt-add-repository
nohup
                                  apt
                                  apropos
nisdomainname
                                  apport-unpack
                                  apport-collect
ngettext
                                  apport-cli
                                  apport-bug
networkd-dispatcher
                                  addpart
networkct1
                                  add-apt-repository
netkit-ftp
                                  aa-exec
                                  aa-enabled
netcat
negn
                                  VGAuthService
ncal
```

### 12. List all the files in the / dev directory that start with tty and have 5 characters Comando: ls -d /????? [tty]\*

### 13. List all the files in the / dev directory that begin with **tty and end with 1,2,3 or 4** Comando: Is [tty]\* \*[1] \*[2] \*[3] \*[4]

							2] *[3]		rrgozi	rrgaza	rryou		
loop1	tty1	tty18	tty25	tty33	tty42	tty51	tty6	ttyS1	ttyS18	ttyS25	ttyS6	vcsu1	
100p2	tty10	tty19	ttý26	tty34	ttÿ42	tty51	tty60	ttyS10	ttyS19	ttyS26	ttýS7	vcsu2	
100p3	ttÿ11	ttÿ2	ttÿ27	tty34	ttÿ43	ttÿ52	tty61	ttyS11	ttyS2	ttyS27	ttyS8	vcsu3	
100p4	ttÿ11	ttÿ2	ttÿ28	tty35	ttÿ43	ttÿ52	tty61	ttyS11	ttyS2	ttys28	ttÿS9	vcsu4	
sda1	tty12	tty20	tty29	tty36	tty44	tty53	tty62	ttyS12	ttyS20	ttyS29	ttyprintk		
sda2	tty12	tty21	tty3	tty37	tty44	tty53	tty62	ttyS12	ttyS21	ttyS3	vcs1		
sda3	tty13	tty21	tty3	tty38	tty45	tty54	tty63	ttyS13	ttyS21	ttyS3	vcs2		
sg1	tty13	tty22	tty30	tty39	tty46	tty54	tty63	ttyS13	ttyS22	ttyS30	vcs3		
sg2	tty14	tty22	tty31	tty4	tty47	tty55	tty7	ttyS14	ttyS22	ttyS31	vcs4		
sr1	tty14	tty23	tty31	tty4	tty48	tty56	tty8	ttyS14	ttyS23	ttyS31	vcsa1		
tty	tty15	tty23	tty32	tty40	tty49	tty57	tty9	ttyS15	ttyS23	ttyS4	vcsa2		
tty0	tty16	tty24	tty32	tty41	tty5	tty58	ttyS0	ttyS16	ttyS24	ttyS4	vcsa3		
tty1	tty17	tty24	tty33	tty41	tty50	tty59	ttyS1	ttyS17	ttyS24	ttyS5	vcsa4		
admins	adminsanti@servidorsanti:/dev\$												

# 14. List all files, including hidden files, in the root directory

Primero entro desde el admin con sudo -i

```
adminsanti@servidorsanti:/home$ cd /root
-bash: cd: /root: Permission denied
adminsanti@servidorsanti:/home$ sudo -i
root@servidorsanti:~# cd /root
root@servidorsanti:~# ls -a
. . . .bash_history .bashrc .profile .ssh snap
root@servidorsanti:~# _
```

### 15. List all the files in your Home directory showing all the properties of these, identify each column and write down the meaning of each property.

First column explain the permissions.

Second column is the owner

Third column is user

Fourth column is groups

Fifth column is the size of the file or directory

Then the date and time of creation and the name of the directory.

```
root@servidorsanti:/home# ls -l
total 24
drwxr-xr-x 2 root
                                     4096 May
                                                7 10:01 DATA
                         root
drwxr-xr-x 3 root
                                     4096 May
                                               4 17:47 DELETE
                         root
-rw-r--r-- 1 root
drwxr-xr-x 2 root
                                       15 May
                                               7 09:58 NOMBRE
                         root
                                     4096 May 4 17:44 PROGC
                         root
drwxr–xr–x 2 root
                                     4096 May 4 17:45 SCRIPTS
                         root
drwxr-xr-x 3 adminsanti adminsanti 4096 May 4 17:17 adminsanti
root@servidorsanti:/home#
```