# LINUX: Exercises about files manipulation

### Part 1

Create a file called "awards" in your home directory, containing

JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR COLIN#FIRTH#THE KING'S SPEECH#ACTOR HALLE#BERRY#FRANKIE AND ALICE#ACTRESS NATALIE#PORTMAN#BLACK SWAN#ACTRESS DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS

1. Add a new line, containing CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR, at the end of the file. You should complete this exercise using commands instead of file editors.

```
student@student-VirtualBox:~$ cat >> awards
JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
COLIN#FIRTH#THE KING'S SPEECH#ACTOR
HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
NATALIE#PORTMAN#BLACK SWAN#ACTRESS
DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR
ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
```

```
student@student-VirtualBox:~$ cat >> awards
CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR
student@student-VirtualBox:~$
```

2. Create a file called "actors" in which you only include ACTORS.

```
student@student-VirtualBox:~$ cat actors
JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
COLIN#FIRTH#THE KING'S SPEECH#ACTOR
```

3. Display the files which begin with a in your home directory.

Other option Is -d \$HOME/a\*

Ls \$home | grep "^a"

```
student@student-VirtualBox:~$ ls | grep ^a
actors
awards
```

4. Create a file called "directors" in which you only include DIRECTORS.

```
student@student-VirtualBox:~$ grep "#DIRECTOR$" awards > directors
student@student-VirtualBox:~$ cat directors
DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR
CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR
student@student-VirtualBox:~$
```

5. Display the lines of "awards" containing actresses. Show the line number.

Grep -n "#ACTRESS\$" awards

```
student@student-VirtualBox:~$ grep -n "#ACTRESS$" awards
3:HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
4:NATALIE#PORTMAN#BLACK SWAN#ACTRESS
6:ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
```

6. Display the lines in "awards" which are not directors. Show the line number.

```
student@student-VirtualBox:~$ grep -v -n DIRECTOR awards
1:JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR COLIN#FIRTH#THE KING'S SPEECH#ACTOR
2:HALLE#BERRY#FRANKIE AND ALICE#ACTRESS NATALIE#PORTMAN#BLACK SWAN#ACTRESS
4:ALRIGHT#ACTRESS
```

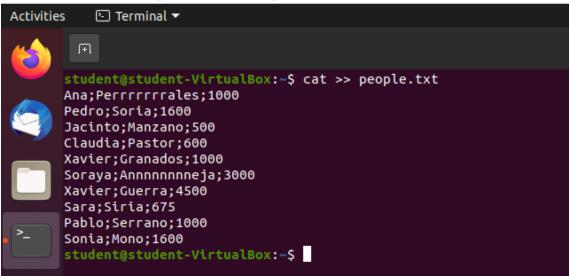
## Part 2

#### Create the file called "people.txt"

Ana; Perales; 1000 Pedro; Soria; 1600 Jacinto; Manzano; 500 Claudia; Pastor; 600 Xavier; Granados; 1000 Soraya; Annnnnnneja; 3000 Xavier; Guerra; 4500 Sara; Siria; 675 Pablo; Serrano; 1000 Sonia; Mono; 1600

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7. Create a file called "people2.txt", containing those people whose name begins with J or S.

```
grep "^S" people.txt> people2.txt
```

grep "^J" people.txt » people2.txt

```
student@student-VirtualBox:~$ grep "^J" people.txt > people2.txt
student@student-VirtualBox:~$ grep "^S" people.txt >> people2.txt
student@student-VirtualBox:~$
```

8. Create a file called "people3.txt", containing those people whose names do not begin with S

```
grep -v "^S" people.tx > people3.txt
```

```
student@student-VirtualBox:~$ grep -v "^S" people.txt > people3.txt
student@student-VirtualBox:~$
```

Display people whose name begin with S and redirect to file to "people\_s.txt"

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```
Activities ► Terminal ▼

student@student-VirtualBox:~$ grep "^S" people.txt > people_stxt

student@student-VirtualBox:~$ cat people_stxt

Soraya;Annnnnnnneja;3000

Sara;Siria;675

Sonia;Mono;1600

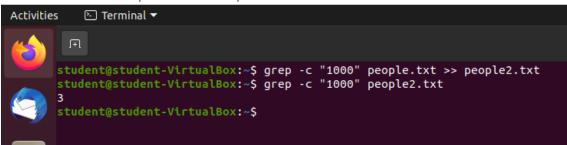
student@student-VirtualBox:~$
```

10. Display the number of people whose name begins with A (case insensitive) grep -ic "^A" people.txt

```
student@student-VirtualBox:~$ grep -ic "^A" people.txt
1 __
```

11. Display how many people earn 1000 and concatenate the result in people2.txt grep -c 1000 people.txt » people2.txt

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### Part 3

12. Create a file called list, including the contents from the current directory

ls -R

13. Open the file to check if the content is right using cat, more and les and observe the differences.

Cat command show all the content into list with no possibility of changing. With More command we can see all the content with the difference that we can see more lines using the space key. The Less command es the most usefull of all, this command does all of More does but you have the posibility to move forward and backward.

14. Print the contents of the current directory in reverse alphabetical order.

```
student@student-VirtualBox:~$ ls -r
Videos Templates systems Public people.txt people3.txt Music exercises Documents Desktop awards Africa
'<user>' teachers snap Pictures people_s.txt people2.txt list Downloads directors config Asia actors
```

15. Create a file called inform, containing the log format listo f the files and direcories in your home directory.

(Is -I \$HOME)> infor

```
student@student-VirtualBox:~$ (ls -l $HOME) > inform
student@student-VirtualBox:~$ cat inform
total 1216
-rw-rw-r-- 1 student student
                                  79 dic 29 19:19 actors
drwxrwxr-x 4 student student
                                4096 dic 29 18:52 Africa
drwxrwxr-x 4 student student
                                4096 dic 29 18:52 Asia
-rw-rw-r-- 1 student student
                                 277 dic 29 19:17 awards
drwxrwxr-x 2 student student
                                4096 nov 9 12:51 config
drwxr-xr-x 2 student student
                                4096 oct 24 17:20 Desktop
-rw-rw-r-- 1 student student
                                  80 dic 29 19:25 directors
drwxr-xr-x 2 student student
                                4096 dic 9 18:04 Documents
drwxr-xr-x 2 student student
                                4096 oct 24 17:20 Downloads
drwxrwxr-x 4 student student
                                4096 dic 29 18:53 exercises
-rw-rw-r-- 1 student student
                                   0 dic 29 20:08 inform
-rw-rw-r-- 1 student student 1147896 dic 29 19:46 list
drwxr-xr-x 2 student student
                                4096 oct 24 17:20 Music
-rw-rw-r-- 1 student student
                                  78 dic 29 19:45 people2.txt
-rw-rw-r-- 1 student student
                                 138 dic 29 19:40 people3.txt
-rw-rw-r-- 1 student student
                                  56 dic 29 19:41 people s.txt
-rw-rw-r-- 1 student student
                                 194 dic 29 19:37 people.txt
drwxr-xr-x 2 student student
                                4096 oct 24 17:20 Pictures
drwxr-xr-x 2 student student
                                4096 oct 24 17:20 Public
drwx----- 5 student student
                                4096 dic 16 15:59 snap
drwxrwxr-x 4 student student
                                4096 dic 29 18:41 systems
drwxr-xr-x 2 root
                     root
                                4096 nov 17 12:39 teachers
drwxr-xr-x 2 student student
                                4096 oct 24 17:20 Templates
drwxrwxr-x 3 student student
                                4096 nov 18 12:04 <user>
drwxr-xr-x 2 student student
                                4096 oct 24 17:20 Videos
student@student-VirtualBox:~$
```

16. Find the Word FILE in each file of your home directory, ignoring case and showing the line number (create files containing this Word if you want any march).

```
student@student-VirtualBox:~$ echo FILE > $HOME/test1; echo FILE > $HOME/test2 student@student-VirtualBox:~$ grep -iwn "FILE" $HOME/*2>/dev/null student@student-VirtualBox:~$
```