

## 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.

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

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

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

Other option `ls -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 ANNETTE#BENING#THE KIDS ARE
CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR
student@student-VirtualBox:~$
```

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

`Grep -n actresses awards`

```
student@student-VirtualBox:~$ grep ACTRESS awards; grep -c ACTRESS awards
HALLE#BERRY#FRANKIE AND ALICE#ACTRESS NATALIE#PORTMAN#BLACK SWAN#ACTRESS
ALRIGHT#ACTRESS
2
```


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

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File Machine View Input Devices Help

Activities  Terminal ▾

```
student@student-VirtualBox:~$ cat >> people.txt
Ana;Perrrrrrrrales;1000
Pedro;Soria;1600
Jacinto;Manzano;500
Claudia;Pastor;600
Xavier;Granados;1000
Soraya;Annnnnnnneja;3000
Xavier;Guerra;4500
Sara;Siria;675
Pablo;Serrano;1000
Sonia;Mono;1600
student@student-VirtualBox:~$
```


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

```
student@student-VirtualBox:~$ grep -i j people.txt > people2.txt
student@student-VirtualBox:~$ cat people2.txt
Jacinto;Manzano;500
Soraya;Annnnnnnneja;3000
student@student-VirtualBox:~$ grep -i s people.txt >> people2.txt
student@student-VirtualBox:~$ cat people2.txt
Jacinto;Manzano;500
Soraya;Annnnnnnneja;3000
Ana;Perrrrrrrrales;1000
Pedro;Soria;1600
Claudia;Pastor;600
Xavier;Granados;1000
Soraya;Annnnnnnneja;3000
Sara;Siria;675
Pablo;Serrano;1000
Sonia;Mono;1600
```

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

```
student@student-VirtualBox:~$ grep -i "^[^s]" people.txt > people3.txt
student@student-VirtualBox:~$ cat people3.txt
Ana;Perrrrrrrrales;1000
Pedro;Soria;1600
Jacinto;Manzano;500
Claudia;Pastor;600
Xavier;Granados;1000
Xavier;Guerra;4500
Pablo;Serrano;1000
student@student-VirtualBox:~$
```

9. Display people whose name begin with S and redirect to file to “people\_s.txt”

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File Machine View Input Devices Help

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)

```
student@student-VirtualBox:~$ grep -i "^a" people.txt
Ana;Perrrrrrrrales;1000
```

11. Display how many people earn 1000 and concatenate the result in people2.txt

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File Machine View Input Devices Help

Activities  Terminal ▾



```
student@student-VirtualBox:~$ grep -c "1000" people.txt >> people2.txt
student@student-VirtualBox:~$ grep -c "1000" people2.txt
3
student@student-VirtualBox:~$
```