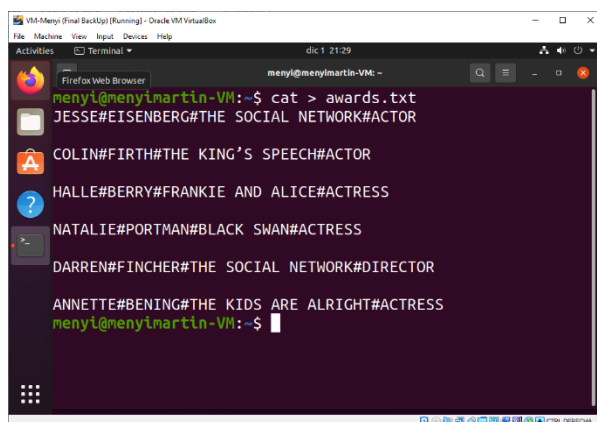


UNIT 03: Linux systems administration # Exercise 04

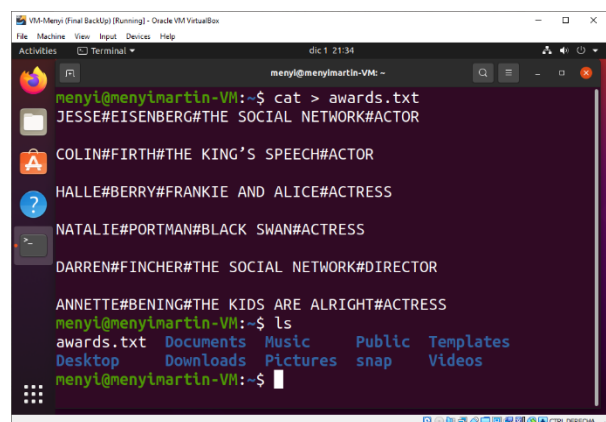
Part 1 # EXERCISES ABOUT FILE MANIPULATION

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#peopTHE KIDS ARE ALRIGHT#ACTRESS

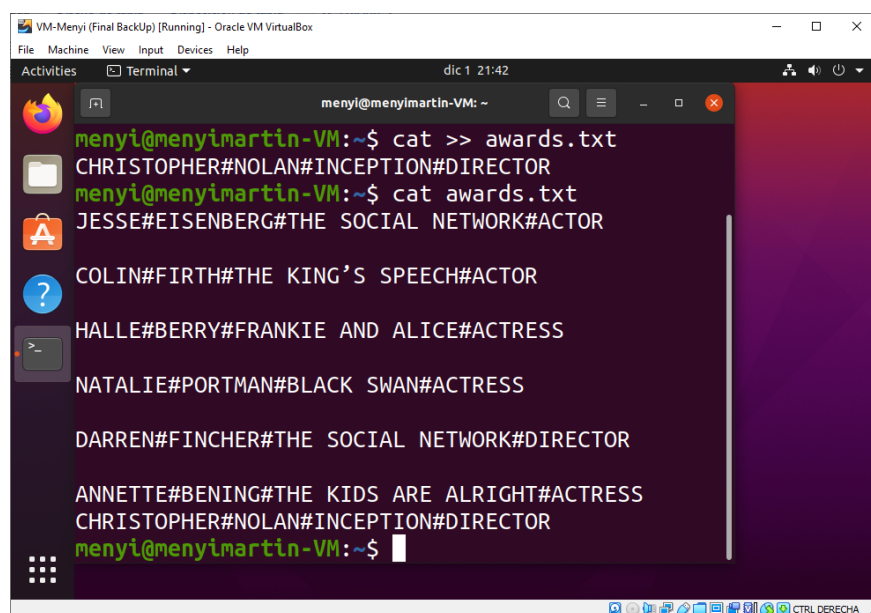


```
menyi@menyimartin-VM:~$ cat > awards.txt
JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
COLIN#FIRTH#THE KING’S SPEECH#ACTOR
HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
NATALIE#PORTMAN#BLACK SWAN#ACTRESS
DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR
ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
menyi@menyimartin-VM:~$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

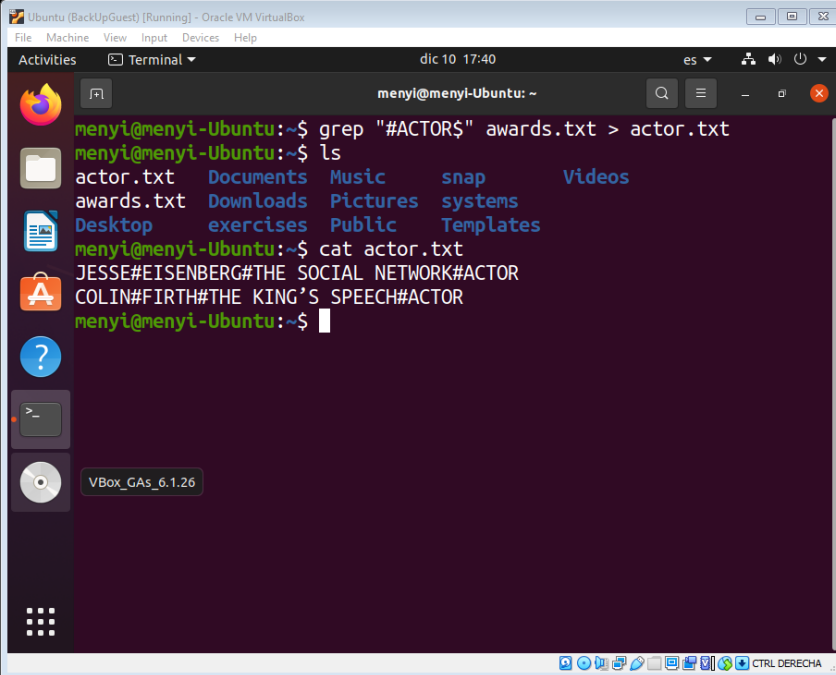


```
menyi@menyimartin-VM:~$ cat > awards.txt
JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
COLIN#FIRTH#THE KING’S SPEECH#ACTOR
HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
NATALIE#PORTMAN#BLACK SWAN#ACTRESS
DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR
ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
menyi@menyimartin-VM:~$ ls
awards.txt  Documents  Music      Public  Templates
Desktop     Downloads  Pictures   snap    Videos
menyi@menyimartin-VM:~$
```

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.

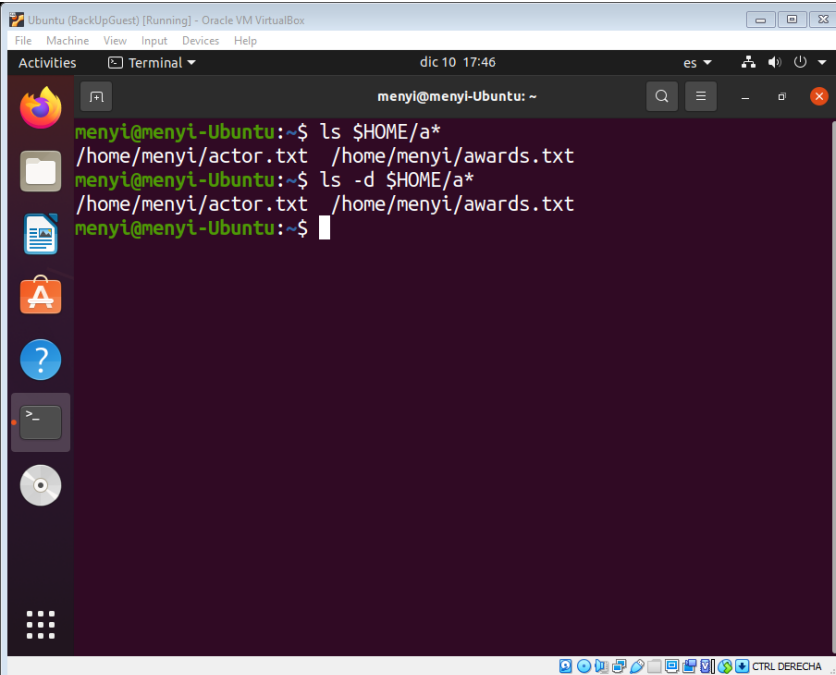


```
menyi@menyimartin-VM:~$ cat >> awards.txt
CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR
menyi@menyimartin-VM:~$ cat awards.txt
JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
COLIN#FIRTH#THE KING’S SPEECH#ACTOR
HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
NATALIE#PORTMAN#BLACK SWAN#ACTRESS
DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR
ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR
menyi@menyimartin-VM:~$
```

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

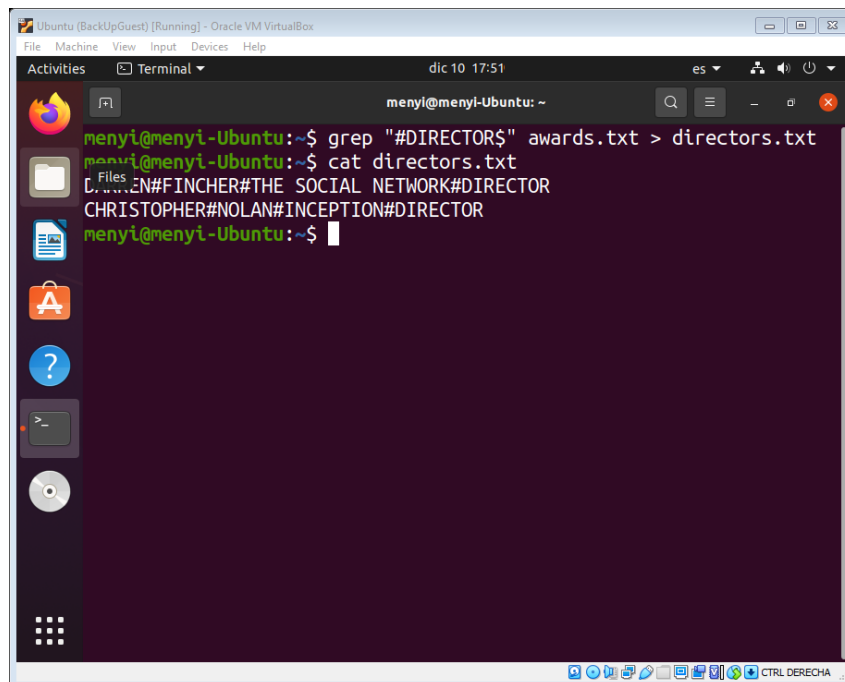
The screenshot shows a terminal window titled "Ubuntu (BackUpGuest) [Running] - Oracle VM VirtualBox". The user is logged in as "menyi" on the host "menyi-ubuntu". The terminal shows the following commands and output:

```
menyi@menyi-ubuntu:~$ grep "#ACTOR$" awards.txt > actor.txt
menyi@menyi-ubuntu:~$ ls
actor.txt  Documents  Music      snap       Videos
awards.txt Downloads  Pictures   systems
Desktop    exercises  Public     Templates
menyi@menyi-ubuntu:~$ cat actor.txt
JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
COLIN#FIRTH#THE KING'S SPEECH#ACTOR
menyi@menyi-ubuntu:~$
```

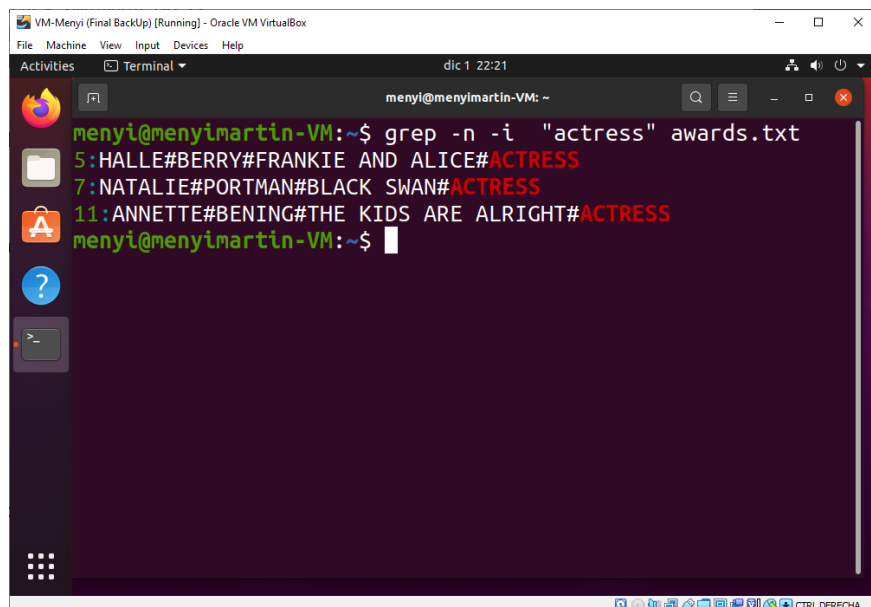
3. Display the files which begin with a in your home directory.

The screenshot shows the same terminal window as before. The user has executed the following commands to list files in the home directory:

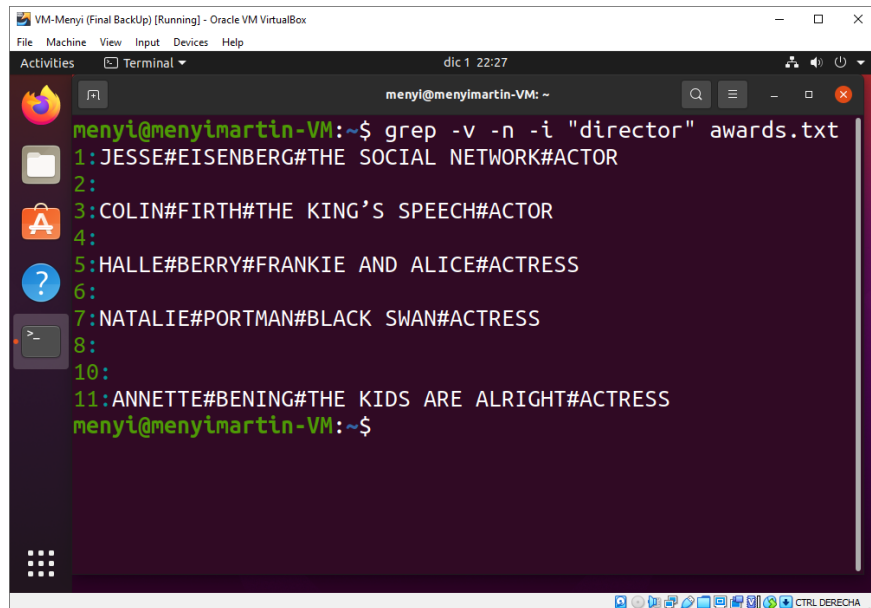
```
menyi@menyi-ubuntu:~$ ls $HOME/a*
/home/menyi/actor.txt  /home/menyi/awards.txt
menyi@menyi-ubuntu:~$ ls -d $HOME/a*
/home/menyi/actor.txt  /home/menyi/awards.txt
menyi@menyi-ubuntu:~$
```

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

```
menyi@menyi-Ubuntu:~$ grep "#DIRECTOR$" awards.txt > directors.txt
menyi@menyi-Ubuntu:~$ cat directors.txt
C. WATKINS#FINCHER#THE SOCIAL NETWORK#DIRECTOR
CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR
menyi@menyi-Ubuntu:~$
```

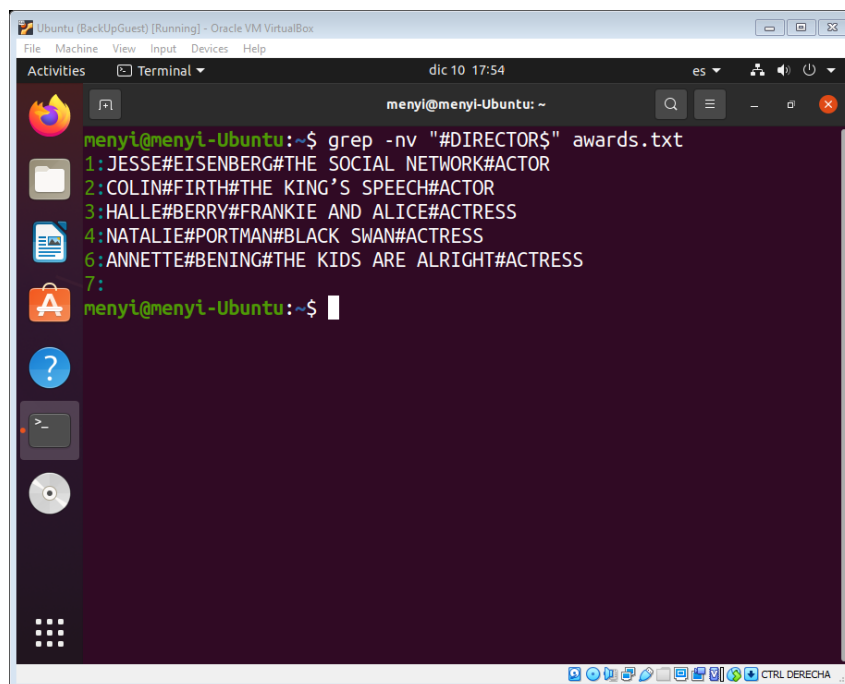
5. Display the lines of “awards” containing actresses. Show the line number.

```
menyi@menyimartin-VM:~$ grep -n -i "actress" awards.txt
5:HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
7:NATALIE#PORTMAN#BLACK SWAN#ACTRESS
11:ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
menyi@menyimartin-VM:~$
```

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

A terminal window titled "VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox" showing a Linux environment. The prompt is "menyi@menyimartin-VM: ~". The command executed is "grep -v -n -i 'director' awards.txt". The output lists lines 1 through 11 of the file "awards.txt", excluding any lines containing the word "director".

```
menyi@menyimartin-VM:~$ grep -v -n -i "director" awards.txt
1:JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
2:
3:COLIN#FIRTH#THE KING'S SPEECH#ACTOR
4:
5:HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
6:
7:NATALIE#PORTMAN#BLACK SWAN#ACTRESS
8:
10:
11:ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
menyi@menyimartin-VM:~$
```



A terminal window titled "Ubuntu (BackUpGuest) [Running] - Oracle VM VirtualBox" showing a Linux environment. The prompt is "menyi@menyi-Ubuntu: ~". The command executed is "grep -nv '#DIRECTORS' awards.txt". The output lists lines 1 through 7 of the file "awards.txt", excluding any lines containing the string "#DIRECTORS".

```
menyi@menyi-Ubuntu:~$ grep -nv "#DIRECTORS" awards.txt
1:JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
2:COLIN#FIRTH#THE KING'S SPEECH#ACTOR
3:HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
4:NATALIE#PORTMAN#BLACK SWAN#ACTRESS
6:ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
7:
menyi@menyi-Ubuntu:~$
```