A. MANAGING DIRECTORIES

1. Change the current directory to /home/*<user>*

```
> cd ~migueljrm95      > cd ./home/migueljrm95    > $HOME
```

2. Create a directory called **systems**

```
> mkdir systems
```

3. Create a directory called **exercises**. Go to this directory and create another new directory called **programming**

```
> mkdir -p exercises/{programming}
```

4. Go back to the user's home directory. Delete the directories "exercises" and "programming" using just one command. Create the directories again with one command.
```
> cd ~migueljrm95 && rmdir -p exercises/programming
> mkdir -p exercises/{programming}
```

5. Print the contents of the root directory

```
> ls /
```

6. Print all the files and directories that begin with d in the /usr/bin directory

```
> ls /usr/bin/d*
```

7. List all the files and directories in /etc, including subdirectories

```
> ls -R /etc        > ls tree /etc
```

8. Create the empty files called student.txt, student1.txt, student2.txt, list, luggage and last in the directory named "systems"

```
> cd ./systems && touch student.txt student1.txt student2.txt list luggage last
```

9. Print all the files that begin with "l" in the directory "systems"

```
> ls l*        > ls | grep ^l
```

10. Print all the files that end with "txt" in the directory "systems"

```
> ls *.txt
```

11. Create a new directory into $HOME called "config"

```
> $HOME && mkdir config      > mkdir -p $HOME/config
```

12. Copy all the files in /etc which begin with "a" into "config"

```
> cp -R /etc a* config
```

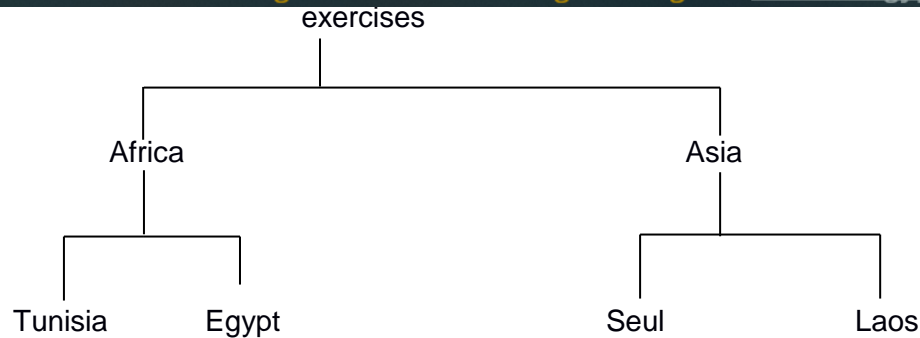13. Delete all the files in "config" which end with "conf"

```
> rm ./config *.conf
```

B. COPY, RENAME AND EDIT FILES

Create the following directory structure in /home/<user>/exercises

```
> mkdir -p exercises/Africa/{Tunisia,Egypt} && cd exercises && mkdir -p Asia/{Seul,Laos}
```

```
> touch Africa/Egypt/song.doc Asia/Seul/tv.doc Africa/Tunisia/marks
```
```
> echo "Look out There's no sight of the morning coming" > Africa/Egypt/song.doc
```

exercises

```
                          Africa                        Asia


            Tunisia        Egypt              Seul           Laos
```

```
> printf "Programming 9\nOperative Systems 9\nData Bases 9\n...Around 9 in the others" >
Africa/Tunisia/marks
```

14. Create the following files using **nano** (or another editor): **song.doc** (write a few lines of a song) in the directory **Egypt**; **tv.doc** (write the name of your favourite TV programs) in the directory **Seul** and **marks** (write the marks you expect to get this year) in the directory **Tunisia**.

```
> printf "Los Soprano\nBetter Call Saul\nEl Alienista " > Asia/Seul/tv.doc
```

CHANGE THE CURRENT DIRECTORY TO AFRICA AND DO THE FOLLOWING EXERCISES USING RELATIVE PATHS

15. Copy the file "song.doc" into "Laos"

```
> cp Egypt/song.doc ../Asia/Laos
```

16. Copy the file "tv.doc" into "Egypt" with the name "radio.txt"

```
> cp ../Asia/Seul/tv.doc Egypt/radio.txt
```

17. Rename the file "marks" to "exam.wri" (it is located in the directory named Tunisia)

```
> mv Tunisia/marks Tunisia/exam.wri
```

18. Copy the file "song.doc" (located in "Egypt") inside "Tunisia"

```
> cp Egypt/song.doc Tunisia
```

19. Print the content of the current directory using long listing format

```
> ls -l
```

20. Rename the file "song.doc" (located in "Laos") to "aa.doc"

```
> mv ../Asia/Laos/song.doc ../Asia/Laos/aa.doc
```
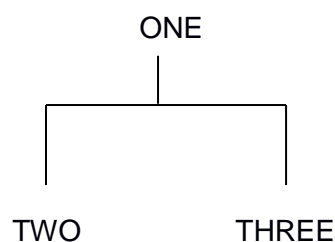
21. Create the directory "Others" in "Laos"

```
> mkdir ../Asia/Laos/Others
```

22. Rename the directory named "programming" (which you created in the first exercises) to pro-c.

```
> mv ../programming ../pro-c
```

23. Create the following directory tree in "exercises" (using as few commands as possible)

```
                          ONE


                  TWO           THREE
```

```
> mkdir -p ../ONE/{TWO,THREE}
```

24. Copy the files with txt extension from the directory named "systems" to "exercises".

```
> cp ../../systems/*txt ../exercises
```

25. Move the files you copied in the exercise above to the directory THREE.

```
> mv ../exercises/*txt ONE/THREE
```

26. Delete the directory named THREE, including all the files and, if so, subdirectories

```
> cd .. && rm -rf ONE/THREE
```

CHANGE INTO SYSTEMS AND DO THE FOLLOWING EXERCISES USING ABSOLUTE PATHS

27. Copy the files that end with "txt" of the directory named "systems" to "Tunisia"

```
> cp *txt /home/migueljrm95/exercises/Africa/Tunisia
```

28. Copy the file "tv.doc" (located in "Seul") to the directory named "exercises"

```
> cp /home/migueljrm95/exercises/Asia/Seul/tv.doc /home/migueljrm95/exercises
```

29. Rename the file student1.txt (located in "Tunisia") to tuition.txt

```
> mv /home/migueljrm95/exercises/Africa/Tunisia/student1.txt /home/migueljrm95/exercises/Africa/Tunisia/tuition.txt
```

30. Create a new directory called "earth" into "systems". Create another directory called "countries" inside "earth"

```
> mkdir -p $HOME/systems/earth/countries
```

31. Rename "Africa" (located in "exercises") to "Afri"

```
> mv /home/migueljrm95/exercises/Africa /home/migueljrm95/exercises/Afri
```

NOW YOU CAN BE PLACED IN THE DIRECTORY YOU WANT

32. Move the file "song.doc", which is located in Egypt, to "Laos" with the name "bb.doc"

```
> mv Afri/Egypt/song.doc Asia/Laos/bb.doc
```

33. Copy the files whose name contains the letter "u" from "systems" to "exercises"

```
> cp ../systems/*u* ~/exercises
```

34. Print the content of the /etc directory, including subdirectories, in reverse alphabetical order

```
> ls -R ../../../etc
```

35. How can you print the name of the current directory?

```
> pwd
```

36. Copy the folder "Afri" including files and subdirectories to "Asia"

```
> cp -a Afri/. Asia
```

37. Move all the files and subdirectories of "Laos" to "Seul" and rename it to "Seul2"

```
> mv Asia/Laos/* Asia/Seul && mv Asia/Seul Asia/Seul2
```