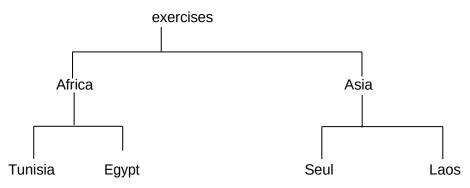
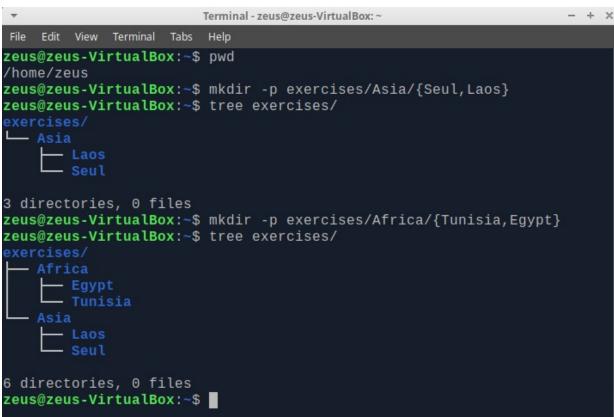
B. COPY, RENAME AND EDIT FILES

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





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**.

```
zeus@zeus-VirtualBox:~$ echo "Highway to hell (I'm on the highway to h
ell)" > exercises/Africa/Egypt/song.doc
zeus@zeus-VirtualBox:~$ cat exercises/Africa/Egypt/song.doc
Highway to hell (I'm on the highway to hell)
```

```
| zeus@zeus-VirtualBox:~$ nano exercises/Asia/Seul/tv.doc
```

```
Terminal - zeus@zeus-VirtualBox: ~
File Edit View Terminal Tabs Help
zeus@zeus-VirtualBox:~$ tree exercises/
xercises/
           - song.doc
        - marks
      - Laos
      - Seul
          tv.doc
6 directories, 3 files
zeus@zeus-VirtualBox:~$ cat exercises/Africa/Egypt/song.doc
Highway to hell (I'm on the highway to hell)
zeus@zeus-VirtualBox:~$ cat exercises/Africa/Tunisia/marks
zeus@zeus-VirtualBox:~$ cat exercises/Asia/Seul/tv.doc
Big Bang
zeus@zeus-VirtualBox:~$
```

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

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

```
File Edit View Terminal Tabs Help

zeus@zeus-VirtualBox:~$ pwd

/home/zeus

zeus@zeus-VirtualBox:~$ tree exercises/

exercises/

Africa

Egypt

song.doc

Tunisia

marks

Asia

Laos

Seul

tv.doc

6 directories, 3 files

zeus@zeus-VirtualBox:~$ cd exercises/Africa/

zeus@zeus-VirtualBox:~/exercises/Africa$ cp Egypt/song.doc ../Asia/Laos/

zeus@zeus-VirtualBox:~/exercises/Africa$ ls -l ../Asia/Laos/

total 4

-rw-rw-r-- 1 zeus zeus 45 ene 16 11:04 song.doc

zeus@zeus-VirtualBox:~/exercises/Africa$ cp ../Asia/Seul/tv.doc Egypt/radio.txt
```

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

```
zeus@zeus-VirtualBox:~/exercises/Africa$ cp ../Asia/Seul/song.doc Egypt/
zeus@zeus-VirtualBox:~/exercises/Africa$ ls -l Egypt/
total 8
-rw-rw-r-- 1 zeus zeus 9 ene 16 11:06 radio.txt
-rw-rw-r-- 1 zeus zeus 45 ene 18 16:02 song.doc
zeus@zeus-VirtualBox:~/exercises/Africa$
```

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

- 18. Copy the file "song.doc" (located in "Egypt") inside "Tunisia"
- 19. Print the content of the current directory using long listing format

```
Terminal - zeus@zeus-VirtualBox: ~/exercises/Africa
                                                                               - + ×
File Edit View Terminal Tabs Help
zeus@zeus-VirtualBox:~/exercises/Africa$ tree ../../exercises/
           radio.txt
        ___ song.doc
        - marks
        └─ song.doc
          — tv.doc
6 directories, 5 files
zeus@zeus-VirtualBox:~/exercises/Africks mv Tunisia/marks Tunisia/marks.wri
zeus@zeus-VirtualBox:~/exercises/Afri a$ cp Egypt/song.doc Tunisia/
zeus@zeus-VirtualBox:~/exercises/Africa$ ls -l
total 8
drwxrwxr-x 2 zeus zeus 4096 ene 16 11:06 Egypt
drwxrwxr-x 2 zeus zeus 4096 ene 16 11:14 Tunisia
20. Rename the file "song.doc" (located in "Laos") to "aa.doc"
```

```
eus@zeus-VirtualBox:~/exercises/Africa$ mv ../Asia/Laos/"song.doc" ../Asia/Laos"
"aa.doc"
total 4
-rw-rw-r-- 1 zeus zeus 45 ene 16 11:
zeus@zeus-VirtualBox:~/exercises/Africa$
```

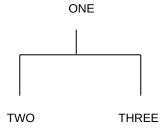
21. Create the directory "Others" in "Laos"

```
zeus@zeus-VirtualBox:~/exercises/Africa; mkdir ../Asia/Laos/"Others"
zeus@zeus-VirtualBox:~/exercises/Africa; ls -l ../Asia/Laos
total 8
-rw-rw-r-- 1 zeus zeus 45 ene 16 11:04 aa.doc
drwxrwxr-x 2 zeus zeus 4096 ene 16 11:2. Others
```

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

```
zeus@zeus-VirtualBox:~/exercises/Africa$ mkdir ../../exercises/programing
zeus@zeus-VirtualBox:~/exercises/Africa$ mkdir ../../exercises/programing" ../../exercises/pro-c
zeus@zeus-VirtualBox:~/exercises/Africa$ ls -l ../../exercises/
total 12
drwxrwxr-x 4 zeus zeus 4096 ene 14 21:07 Africa
drwxrwxr-x 4 zeus zeus 4096 ene 14 21:06 Asia
drwxrwxr-x 2 zeus zeus 4096 ene 16 11:37 pro-c
zeus@zeus-VirtualBox:~/exercises/Africa$
```

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



```
zeus@zeus-VirtualBox:~/exercises/Africa$ mkdir -p ../../exercises/ONE/{TWO,THREE}
zeus@zeus-VirtualBox:~/exercises/Africa$ tree ../../exercises/
../../exercises/

Africa

Egypt
radi.txt
song.doc
Tunisia
marks.wri
song.doc
Asia
Laos
aa.doc
others
Seul

THREE
TWO
```

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

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

```
Terminal-zeus@zeus-VirtualBox:- - + x

File Edit View Terminal Tabs Help

Zeus@zeus-VirtualBox:-$ tree -L 1 exercises/

File Edit View Terminal Tabs Help

Africa

Asia

ONE

pro-c

4 directories, 0 files

Terminal-zeus@zeus-VirtualBox:-/exercises/Africa

Terminal-zeus@zeus-VirtualBox:-/exercises/Africa

Zeus@zeus-VirtualBox:-/exercises/Africa$ mv ../*txt ../ONE/THREE/

Zeus@zeus-VirtualBox:-/exercises/Africa$ ls -l ../ONE/THREE/

Total 0

-rw-rw-r-- 1 zeus zeus 0 ene 16 12:04 students1.txt

-rw-rw-r-- 1 zeus zeus 0 ene 16 12:04 students2.txt

-rw-rw-r-- 1 zeus zeus 0 ene 16 12:04 students2.txt

-rw-rw-r-- 1 zeus zeus 0 ene 16 12:04 students.txt
```

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

```
zeus@zeus-VirtualBox:~/exercises/Afric $ rm -rf ../ONE/THREE/
zeus@zeus-VirtualBox:~/exercises/Africas [S - L ../ONE/THREE/
ls: cannot access '../ONE/THREE/': No such file or directory
```

<u>CHANGE INTO SYSTEMS AND DO THE FOLLOWING EXERCISES USING ABSOLUTE</u> PATHS

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

```
zeus@zeus-VirtualBox:~/Documents/systems$ ls -l /home/zeus/exercises/Africa/Tunisia/
total 8
-rw-rw-r-- 1 zeus zeus 2 ene 14 21:26 marks.wr1
-rw-rw-r-- 1 zeus zeus 45 ene 16 11:14 song.doc
zeus@zeus-VirtualBox:~/Documents/systems$ cp *txt /home/zeus/exercises/Africa/Tunisia/
/
zeus@zeus-VirtualBox:~/Documents/systems$ ls -l /home/zeus/exercises/Africa/Tunisia/
total 8
-rw-rw-r-- 1 zeus zeus 2 ene 14 21:26 marks.wri
-rw-rw-r-- 1 zeus zeus 45 ene 16 11:14 song.doc
rw-rw-r-- 1 zeus zeus 0 ene 16 12:31 students1.txt
rw-rw-r-- 1 zeus zeus 0 ene 16 12:31 students2.txt
rw-rw-r-- 1 zeus zeus 0 ene 16 12:31 students.txt
```

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

```
Zeus@Zeus-Virtualbox:~/Documents/systems$ cp /nome/Zeus/exercises/Asia/seui/iv.doc /nome/Zeus/exercises/
zeus@zeus-VirtualBox:~/Documents/systems$ ls -l /home/zeus/exercises/
total 20
drwxrwxr-x 4 zeus zeus 4096 ene 14 21:07 Africa
drwxrwxr-x 4 zeus zeus 4096 ene 14 21:06 Asia
drwxrwxr-x 3 zeus zeus 4096 ene 16 12:10 ONE
drwxrwxr-x 2 zeus zeus 4096 ene 16 11:37 pro-c
rw-rw-r-- 1 zeus zeus 9 ene 16 12:33 tv.doc
```

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

```
zeus@zeus-VirtualBox:~/Documents/systems$ mv /home/zeus/exercises/Africa/Tunisia/stude
nts1.txt /home/zeus/exercises/Africa/Tunisia/tuition.txt
zeus@zeus-VirtualBox:~/Documents/systems$ ls -l /home/zeus/exercises/Africa/Tunisia/
total 8
-rw-rw-r-- 1 zeus zeus 2 ene 14 21:26 marks.wri
-rw-rw-r-- 1 zeus zeus 45 ene 16 11:14 song.doc
-rw-rw-r-- 1 zeus zeus 0 ene 16 12:31 students2.txt
-rw-rw-r-- 1 zeus zeus 0 ene 16 12:31 students.txt
-rw-ry-r-- 1 zeus zeus 0 ene 16 12:31 tuition.txt
zeus@zeus-VirtualBox:~/Documents/systems$
```

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

```
"earth"/"countries"
zeus@zeus-virtualBex: ~/Documents/systems$ tree -L 2 /home/zeus/Documents/systems/
/home/zeus/Documents/systems/
— earth
— countries
— last
— list
— luggage
— students1.txt
— students2.txt
— students.txt
2 directories, 6 files
```

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

```
zeus@zeus-VirtualBox:~/Documents/systems$ mv /home/zeus/exercises/Africa /home/zeus/ex
ercises/Afr
zeus@zeus-VirtualBox:~/Documents/systems$ tree -L 1 /home/zeus/exercises/
/home/zeus/exercises/
Afr
Asia
ONE
pro-c
tv.doc
```

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"

```
zeus@zeus-VirtualBox:~/exercises/Asia/Laos$ mv ../../Afr/Egypt/song.doc
zeus@zeus-VirtualBox:~/exercises/Asia/Laos$ ls
aa.doc bb.doc Others
```

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

```
zeus@zeus-VirtualBox:~/exercises/Asia/Laos$ ls -l ../../
total 20
drwxrwxr-x 4 zeus zeus 4096 ene 14 21:07 <mark>Afr</mark>
drwxrwxr-x 4 zeus zeus 4096 ene 14 21:06 <mark>Asia</mark>
drwxrwxr-x 3 zeus zeus 4096 ene 16 12:10 ONE
drwxrwxr-x 2 zeus zeus 4096 ene 16 11:37 <mark>pro-c</mark>
rw-rw-r-- 1 zeus zeus 9 ene 16 12:33 ty doc
zeus@zeus-VirtualBox:~/exercises/Asia/Laos<mark>$</mark>
total 20
drwxrwxr-x 4 zeus zeus 4096 ene 14 21:07 <mark>Afr</mark>
rw-rw-r-- 1 zeus zeus 0 ene 16 12:50 luggage
lrwxrwxr-x 3 zeus zeus 4096 ene 16 12:10 <mark>ONE</mark>
drwxrwxr-x 2 zeus zeus 4096 ene 16 11:37 <mark>pro-c</mark>
-rw-rw-r-- 1 zeus zeus 0 ene 16 12:50 students1.txt
rw-rw-r-- 1 zeus zeus 0 ene 16 12:50 students2.txt
rw-rw-r-- 1 zeus zeus 0 ene 16 12:50 students.txt
                           0 ene 16 12:50 students2.txt
rw-rw-r-- 1 zeus zeus 9 ene 16 12:33 tv.doc
```

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

```
Yes
```

tree -r

*(tree spugL 1 # s = size, p= permissions, u= user, g= group, L= level, in this case on ly print first level)

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

```
With full path
pwd

**Only the name Without full path
echo "${PWD##*/}"
basename $PWD
```

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

```
zeus@zeus-VirtualBox:~/exercises$ tree -L 2 Asia/
Asia/
Laos
Asia/
Delta aa.doc
Delta bb.doc
Others
Seul
Lov.doc

3 directories, 3 files
zeus@zeus-VirtualBox:~/exercises$ cp -r Afr/ Asia/
zeus@zeus-VirtualBox:~/exercises$ tree -L 2 Asia/
Asia/
Afr
Legypt
Tunisia
Aa.doc
Delta aa.doc
Delta aa.doc
Delta conters
Seul
Lov.doc
```

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

```
zeus@zeus-VirtualBox:~/exercises$ tree -L 2 Asia/
Asia/
Afr
Egypt
Tunisia
Laos
aa.doc
bb.doc
others
Seul
tv.doc

6 directories, 3 files
zeus@zeus-VirtualBox:~/exercises$ mv Asia/Laos/* Asia/Seul
&& mv Asia/Laos Asia/Seul2
zeus@zeus-VirtualBox:~/exercises$ tree -L 2 Asia/
Asia/
Afr
Egypt
Tunisia
Seul
aa.doc
bb.doc
others
tv.doc
Seul2
```

References:

^{*}https://linux.die.net/man/1/tree

^{**}https://stackoverflow.com/questions/1371261/get-current-directory-name-without-full-path-in-a-bash-script