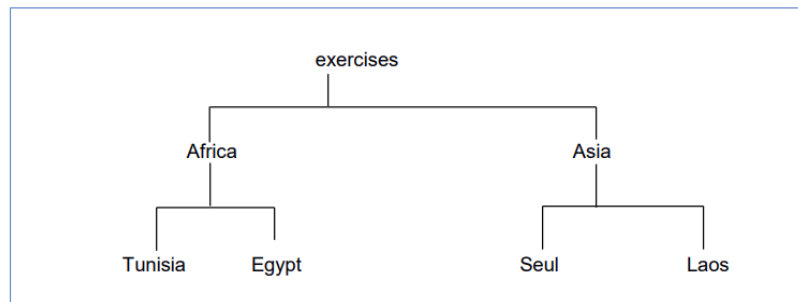


UNIT 03: Linux systems administration # Exercises

B# COPY, RENAME AND EDIT FILES

Create the following directory structure in /home/exercises



```
VM-Menyi (Final Backup) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
nov 14 21:38
root@menyimartin-VM: /home
root@menyimartin-VM: /home# mkdir exercises/Africa exercises/Asia
root@menyimartin-VM: /home# tree
.
├── exercises
│   ├── Africa
│   └── Asia
├── Lost+Found
├── Mary
├── meny1
├── Desktop
├── Documents
├── Downloads
├── Music
├── Pictures
├── Public
├── Templates
├── Videos
└── Teachers

15 directories, 0 files
root@menyimartin-VM: /home#
```

```
VM-Menyi (Final Backup) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
nov 14 21:48
root@menyimartin-VM: /home/exercises
root@menyimartin-VM: /home/exercises# cd exercises
root@menyimartin-VM: /home/exercises# mkdir Africa/Tunisia Africa/Egypt
root@menyimartin-VM: /home/exercises# mkdir Asia/Seoul Asia/Laos
root@menyimartin-VM: /home/exercises# tree
.
├── Africa
│   ├── Egypt
│   └── Tunisia
└── Asia
    ├── Laos
    └── Seoul

6 directories, 0 files
root@menyimartin-VM: /home/exercises#
```

Also > mkdir -p exercises/Africa/Tunisia

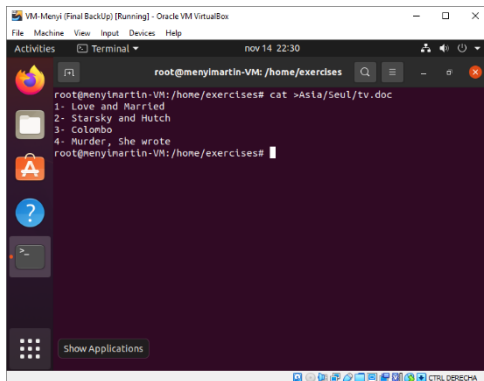
1. Create the following files using nano (or another editor):
 - a. song.doc (write a few lines of a song) in the directory Egypt

```
VM-Menyi (Final Backup) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
nov 14 22:22
root@menyimartin-VM: /home/exercises
root@menyimartin-VM: /home/exercises# cat >Africa/Egypt/song.doc
I am singing in the rain just singing in the rain what a glorious feeling
I am happy again !!!
root@menyimartin-VM: /home/exercises#
```

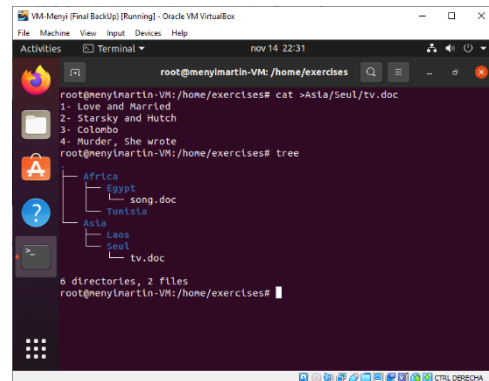
```
VM-Menyi (Final Backup) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
nov 14 22:25
root@menyimartin-VM: /home/exercises
root@menyimartin-VM: /home/exercises# cat >Africa/Egypt/song.doc
I am singing in the rain just singing in the rain what a glorious feeling
I am happy again !!!
root@menyimartin-VM: /home/exercises# tree
.
├── Africa
│   ├── Egypt
│   │   └── song.doc
│   └── Tunisia
└── Asia
    ├── Laos
    └── Seoul

6 directories, 1 file
root@menyimartin-VM: /home/exercises#
```

b. tv.doc (write the name of your favourite TV programs) in the directory Seul

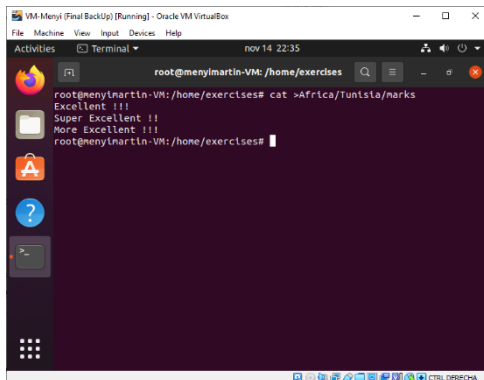


```
root@menymartin-VM: /home/exercises
1- Love and Married
2- Starsky and Hutch
3- Colombo
4- Murder, She wrote
root@menymartin-VM: /home/exercises# cat >Asia/Seul/tv.doc
```

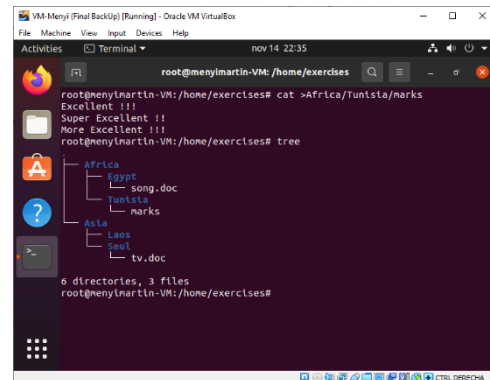


```
root@menymartin-VM: /home/exercises# tree
.
├── Africa
│   └── Egypt
│       └── song.doc
├── Asia
│   ├── Laos
│   └── Seul
│       └── tv.doc
└── 6 directories, 2 files
root@menymartin-VM: /home/exercises#
```

c. marks (write the marks you expect to get this year) in the directory Tunisia



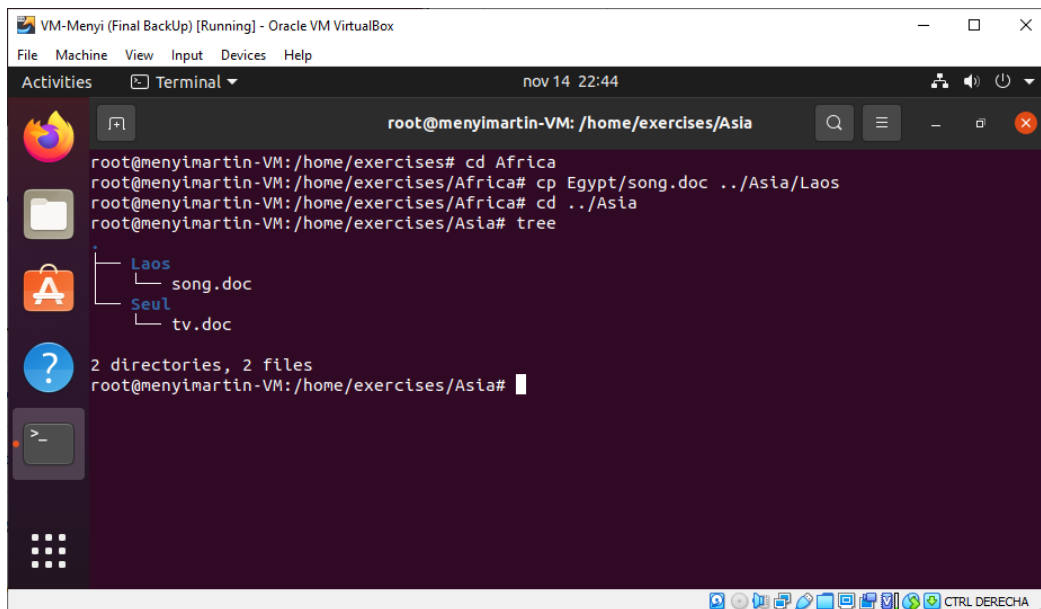
```
root@menymartin-VM: /home/exercises# cat >Africa/Tunisia/marks
Excellent !!!
Super Excellent !!
More Excellent !!!
root@menymartin-VM: /home/exercises#
```



```
root@menymartin-VM: /home/exercises# tree
.
├── Africa
│   ├── Egypt
│   │   └── song.doc
│   └── Tunisia
│       └── marks
├── Asia
│   ├── Laos
│   └── Seul
│       └── tv.doc
└── 6 directories, 3 files
root@menymartin-VM: /home/exercises#
```

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

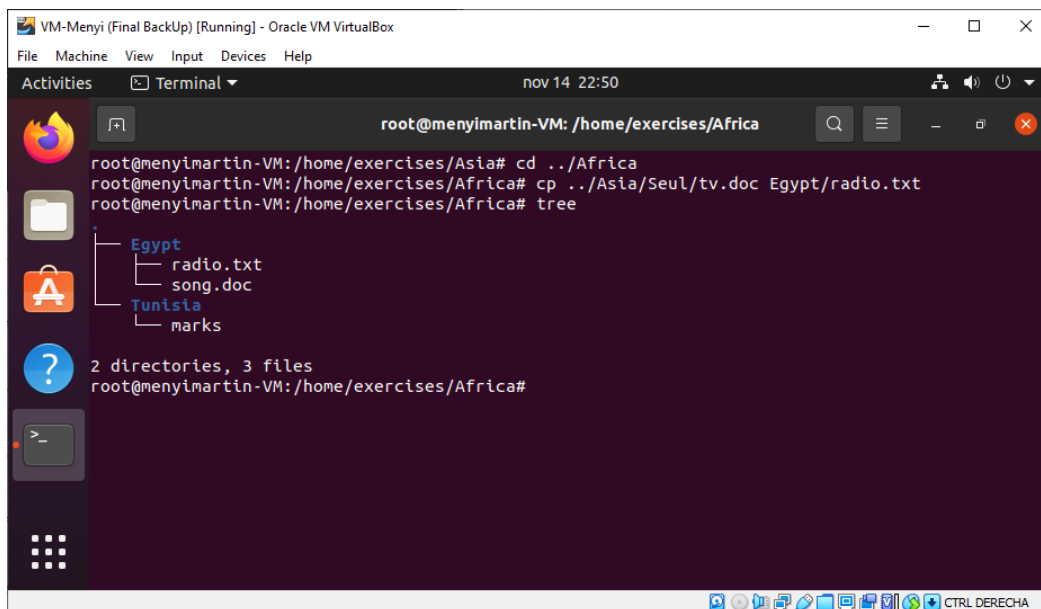
2. Copy the file “song.doc” into “Laos”



```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 14 22:44
root@menyimartin-VM: /home/exercises/Asia
root@menyimartin-VM:/home/exercises# cd Africa
root@menyimartin-VM:/home/exercises/Africa# cp Egypt/song.doc ../Asia/Laos
root@menyimartin-VM:/home/exercises/Africa# cd ../Asia
root@menyimartin-VM:/home/exercises/Asia# tree
.
├── Laos
│   └── song.doc
└── Seul
    └── tv.doc

2 directories, 2 files
root@menyimartin-VM:/home/exercises/Asia#
```

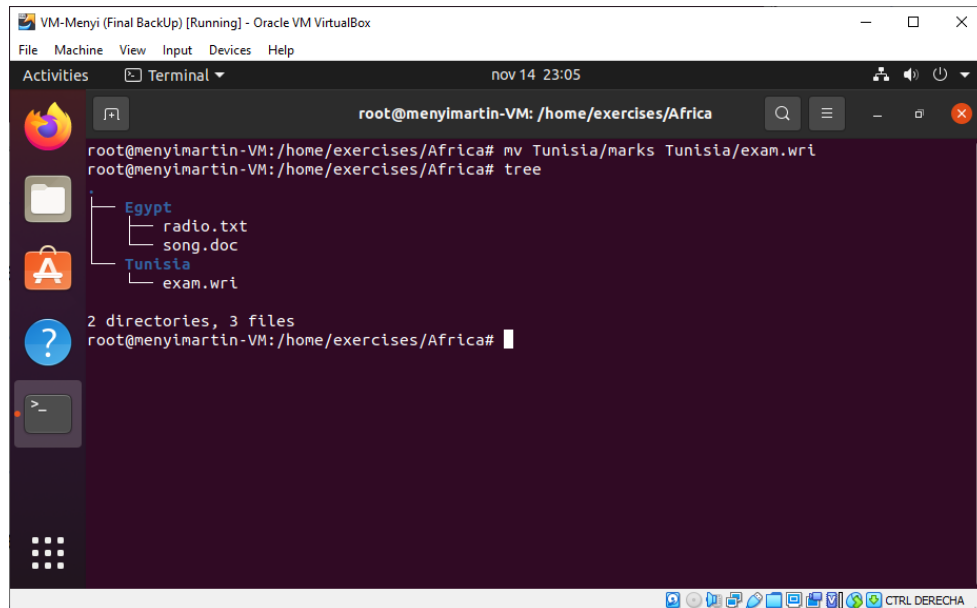
3. Copy the file “tv.doc” into “Egypt” with the name “radio.txt”



```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 14 22:50
root@menyimartin-VM: /home/exercises/Africa
root@menyimartin-VM:/home/exercises/Asia# cd ../Africa
root@menyimartin-VM:/home/exercises/Africa# cp ../Asia/Seul/tv.doc Egypt/radio.txt
root@menyimartin-VM:/home/exercises/Africa# tree
.
├── Egypt
│   ├── radio.txt
│   └── song.doc
└── Tunisia
    └── marks

2 directories, 3 files
root@menyimartin-VM:/home/exercises/Africa#
```

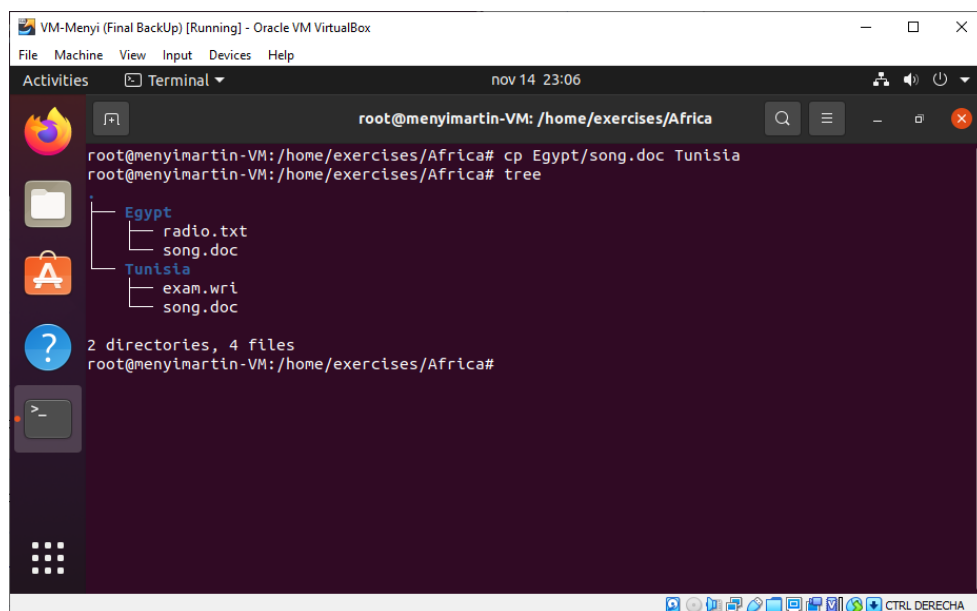
4. Rename the file “marks” to “exam.wri” (it is located in the directory named Tunisia)



```
VM-Menyi (Final Backup) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 14 23:05
root@menyimartin-VM: /home/exercises/Africa
root@menyimartin-VM:/home/exercises/Africa# mv Tunisia/marks Tunisia/exam.wri
root@menyimartin-VM:/home/exercises/Africa# tree
.
├── Egypt
│   ├── radio.txt
│   └── song.doc
└── Tunisia
    └── exam.wri

2 directories, 3 files
root@menyimartin-VM:/home/exercises/Africa#
```

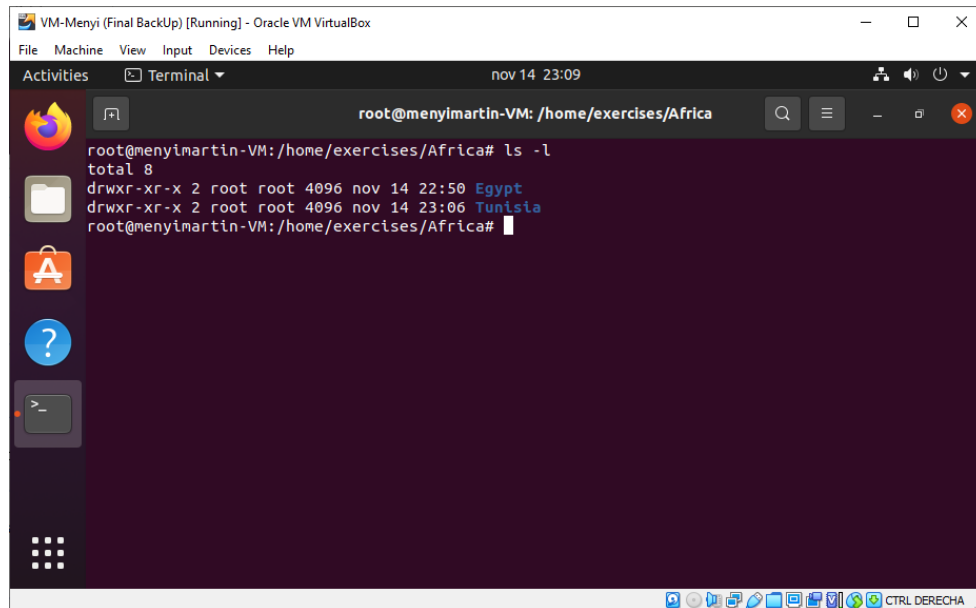
5. Copy the file “song.doc” (located in “Egypt”) inside “Tunisia”



```
VM-Menyi (Final Backup) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 14 23:06
root@menyimartin-VM: /home/exercises/Africa
root@menyimartin-VM:/home/exercises/Africa# cp Egypt/song.doc Tunisia
root@menyimartin-VM:/home/exercises/Africa# tree
.
├── Egypt
│   ├── radio.txt
│   └── song.doc
└── Tunisia
    ├── exam.wri
    └── song.doc

2 directories, 4 files
root@menyimartin-VM:/home/exercises/Africa#
```

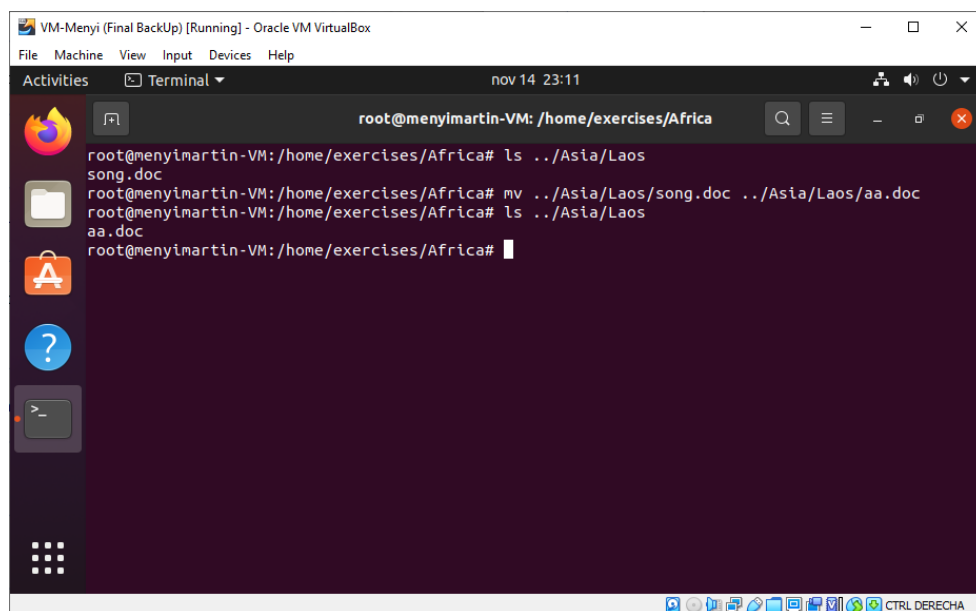
6. Print the content of the current directory using long listing format



The screenshot shows a terminal window titled "VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox". The terminal is running a Linux system with the prompt "root@menyimartin-VM: /home/exercises/Africa". The user has entered the command "ls -l", and the output is displayed as follows:

```
root@menyimartin-VM:/home/exercises/Africa# ls -l
total 8
drwxr-xr-x 2 root root 4096 nov 14 22:50 Egypt
drwxr-xr-x 2 root root 4096 nov 14 23:06 Tunisia
root@menyimartin-VM:/home/exercises/Africa#
```

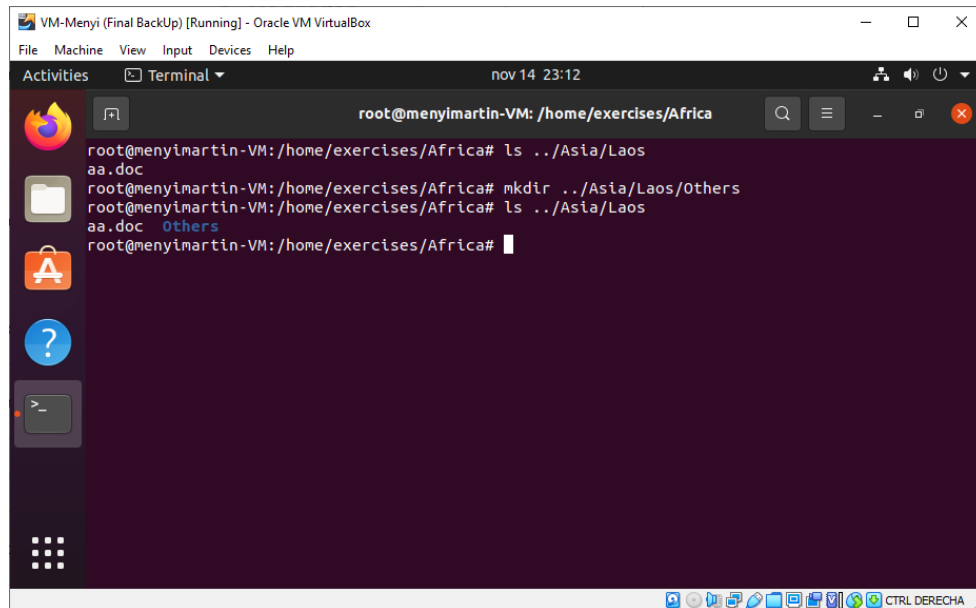
7. Rename the file "song.doc" (located in "Laos") to "aa.doc"



The screenshot shows a terminal window titled "VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox". The terminal is running a Linux system with the prompt "root@menyimartin-VM: /home/exercises/Africa". The user has entered the following commands and their outputs:

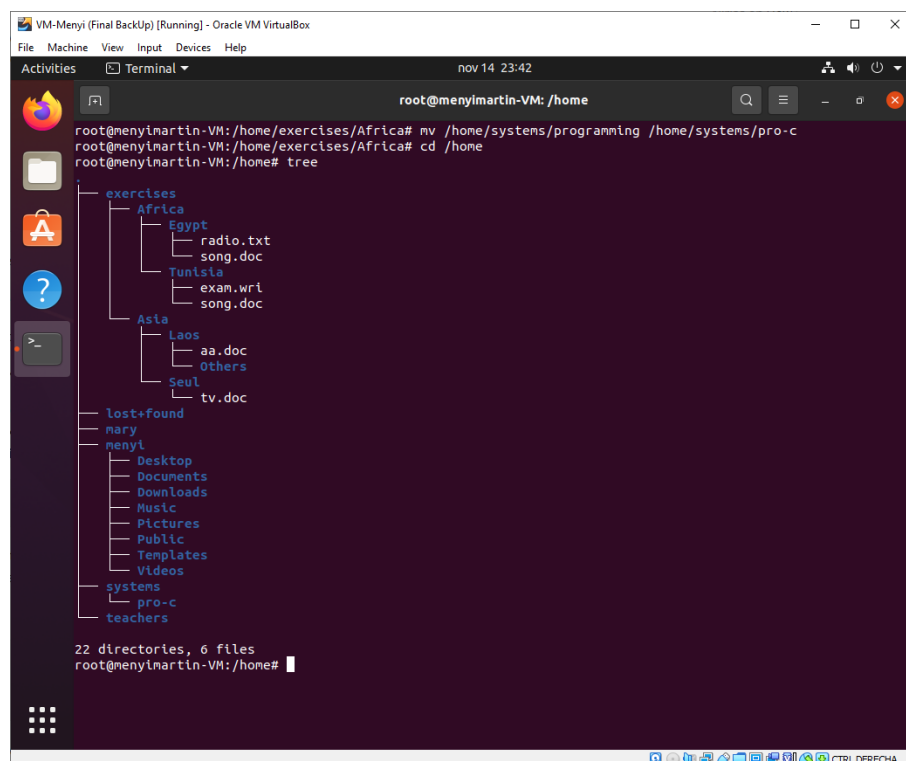
```
root@menyimartin-VM:/home/exercises/Africa# ls ../Asia/Laos
song.doc
root@menyimartin-VM:/home/exercises/Africa# mv ../Asia/Laos/song.doc ../Asia/Laos/aa.doc
root@menyimartin-VM:/home/exercises/Africa# ls ../Asia/Laos
aa.doc
root@menyimartin-VM:/home/exercises/Africa#
```

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



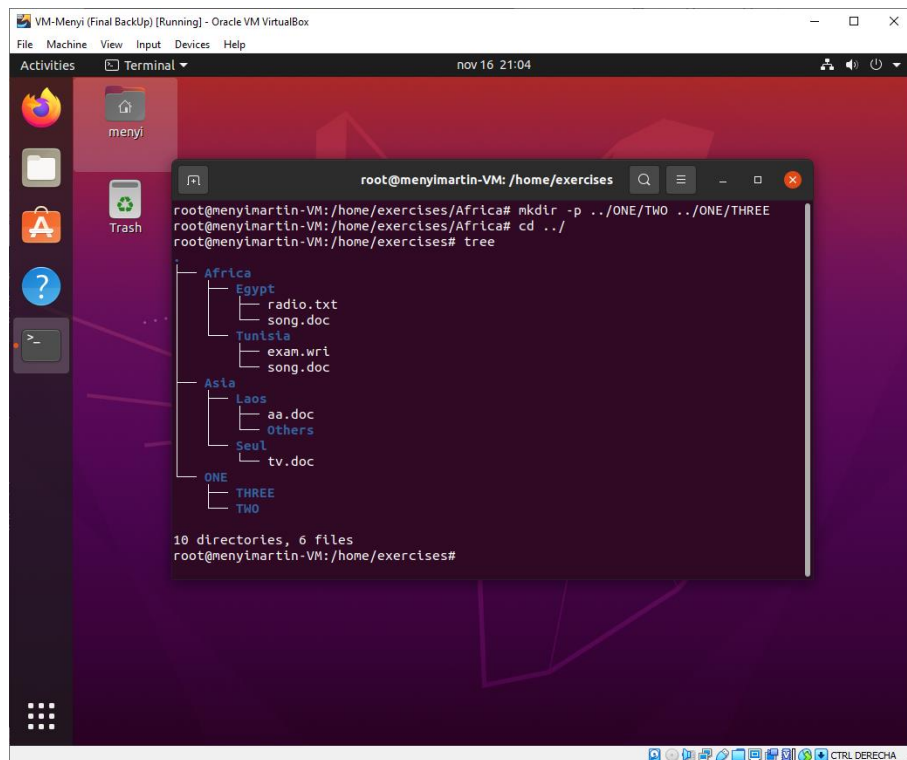
```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 14 23:12
root@menyimartin-VM: /home/exercises/Africa
root@menyimartin-VM:/home/exercises/Africa# ls ../Asia/Laos
aa.doc
root@menyimartin-VM:/home/exercises/Africa# mkdir ../Asia/Laos/Others
root@menyimartin-VM:/home/exercises/Africa# ls ../Asia/Laos
aa.doc Others
root@menyimartin-VM:/home/exercises/Africa#
```

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



```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 14 23:42
root@menyimartin-VM: /home
root@menyimartin-VM:/home/exercises/Africa# mv /home/systems/programming /home/systems/pro-c
root@menyimartin-VM:/home/exercises/Africa# cd /home
root@menyimartin-VM:/home# tree
.
├── exercises
│   ├── Africa
│   │   ├── Egypt
│   │   │   ├── radio.txt
│   │   │   └── song.doc
│   │   ├── Tunisia
│   │   │   ├── exam.wri
│   │   │   └── song.doc
│   │   └── Asia
│   │       ├── Laos
│   │       │   ├── aa.doc
│   │       │   └── Others
│   │       └── Seul
│   │           └── tv.doc
│   ├── lost+found
│   ├── mary
│   └── meny1
│       ├── Desktop
│       ├── Documents
│       ├── Downloads
│       ├── Music
│       ├── Pictures
│       ├── Public
│       ├── Templates
│       └── Videos
├── systems
│   ├── pro-c
│   └── teachers
└── 22 directories, 6 files
root@menyimartin-VM:/home#
```

10. Create the following directory tree ONE > TWO | THREE in “exercises”



The screenshot shows a terminal window titled "root@menyimartin-VM: /home/exercises". The user has executed the following commands:

```
root@menyimartin-VM:/home/exercises/Africa# mkdir -p ../ONE/TWO ../ONE/THREE
root@menyimartin-VM:/home/exercises/Africa# cd ../
root@menyimartin-VM:/home/exercises# tree
```

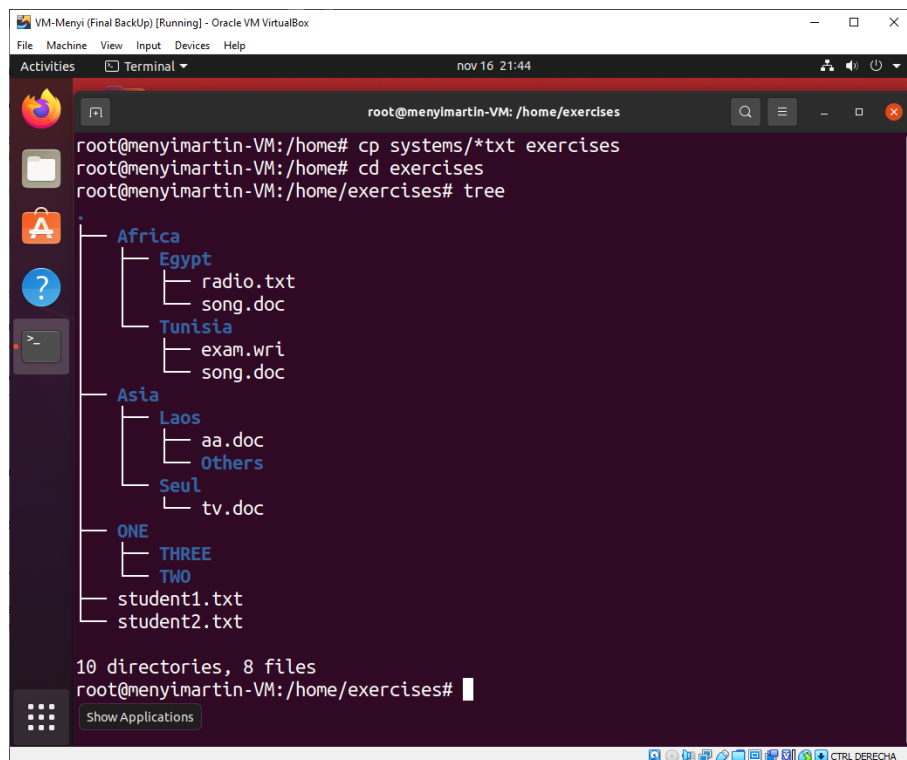
The output of the 'tree' command shows the following directory structure:

```

.
├── Africa
│   ├── Egypt
│   │   ├── radio.txt
│   │   └── song.doc
│   ├── Tunisia
│   │   ├── exam.wri
│   │   └── song.doc
│   └── Asia
│       ├── Laos
│       │   └── aa.doc
│       ├── Others
│       └── Seul
│           └── tv.doc
├── ONE
│   ├── THREE
│   └── TWO
└── 10 directories, 6 files
```

The terminal prompt is now `root@menyimartin-VM:/home/exercises#`.

11. Copy the files with txt extension from the directory named “systems” to “exercises”



The screenshot shows a terminal window titled "root@menyimartin-VM: /home/exercises". The user has executed the following commands:

```
root@menyimartin-VM:/home# cp systems/*txt exercises
root@menyimartin-VM:/home# cd exercises
root@menyimartin-VM:/home/exercises# tree
```

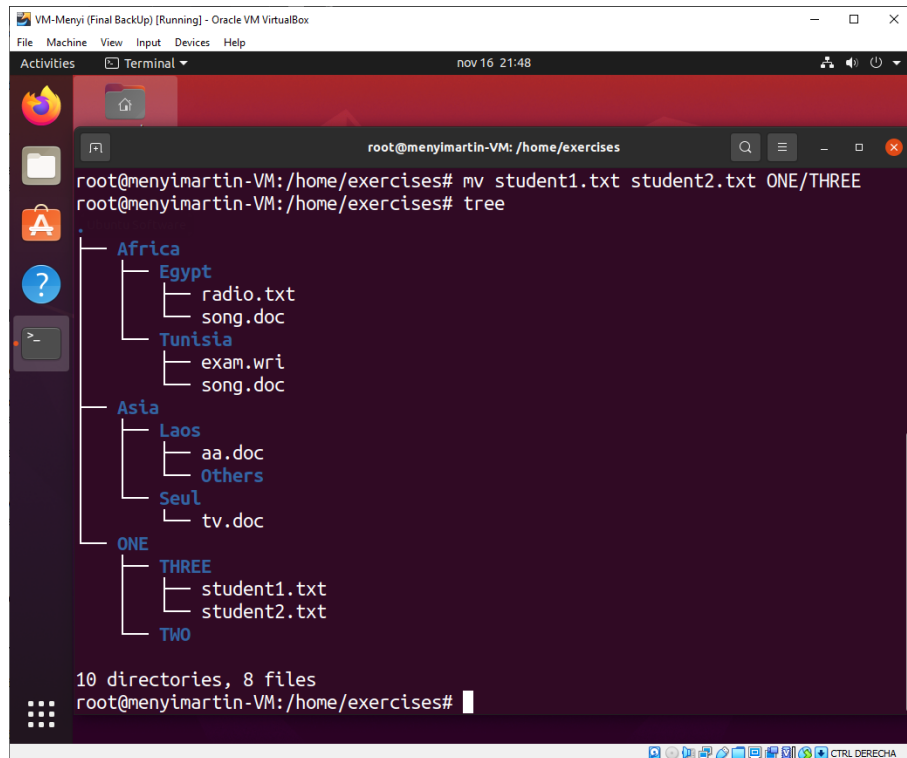
The output of the 'tree' command shows the following directory structure:

```

.
├── Africa
│   ├── Egypt
│   │   ├── radio.txt
│   │   └── song.doc
│   ├── Tunisia
│   │   ├── exam.wri
│   │   └── song.doc
│   └── Asia
│       ├── Laos
│       │   └── aa.doc
│       ├── Others
│       └── Seul
│           └── tv.doc
├── ONE
│   ├── THREE
│   └── TWO
├── student1.txt
└── student2.txt
```

The terminal prompt is now `root@menyimartin-VM:/home/exercises#`.

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

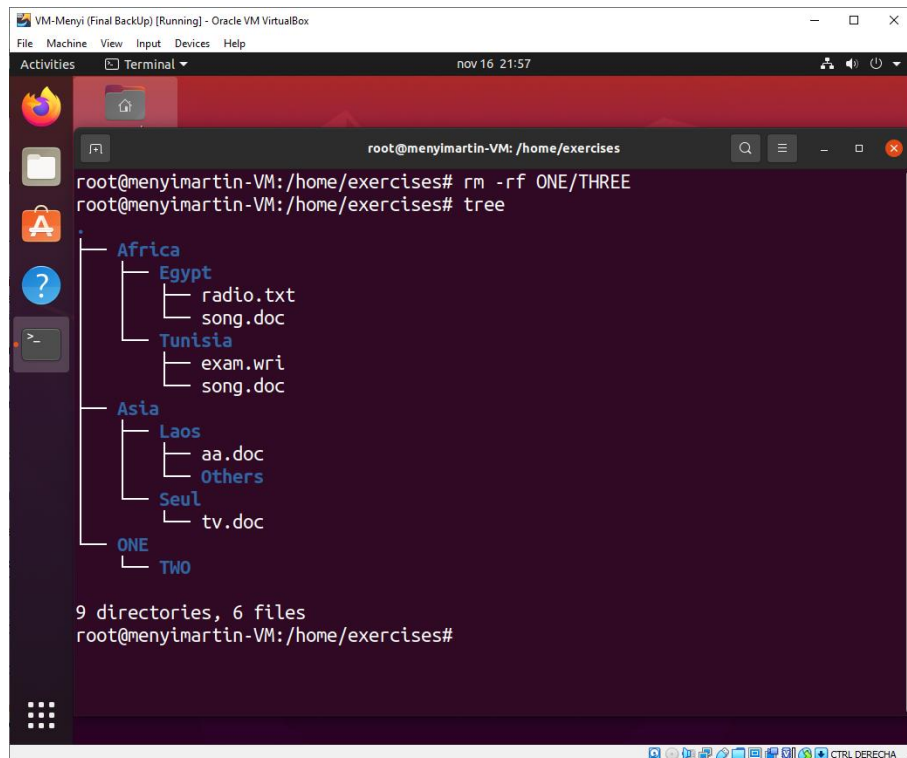


The screenshot shows a terminal window titled "VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox". The terminal is running on a system named "menyimartin-VM" with the current directory set to "/home/exercises". The user has executed the command `mv student1.txt student2.txt ONE/THREE` to move two files into the "THREE" subdirectory of the "ONE" directory. Following this, the user has run the `tree` command to display the directory structure. The output shows a tree starting from the current directory, with subdirectories "Africa", "Asia", "ONE", and "TWO". Under "Africa" are "Egypt" (with "radio.txt" and "song.doc") and "Tunisia" (with "exam.wri" and "song.doc"). Under "Asia" are "Laos" (with "aa.doc"), "Others", and "Seul" (with "tv.doc"). Under "ONE" are "THREE" (containing "student1.txt" and "student2.txt") and "TWO". The summary indicates "10 directories, 8 files".

```
root@menyimartin-VM:/home/exercises# mv student1.txt student2.txt ONE/THREE
root@menyimartin-VM:/home/exercises# tree
.
├── Africa
│   ├── Egypt
│   │   ├── radio.txt
│   │   └── song.doc
│   └── Tunisia
│       ├── exam.wri
│       └── song.doc
├── Asia
│   ├── Laos
│   │   └── aa.doc
│   ├── Others
│   └── Seul
│       └── tv.doc
├── ONE
│   ├── THREE
│   │   ├── student1.txt
│   │   └── student2.txt
│   └── TWO
└── TWO

10 directories, 8 files
root@menyimartin-VM:/home/exercises#
```

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

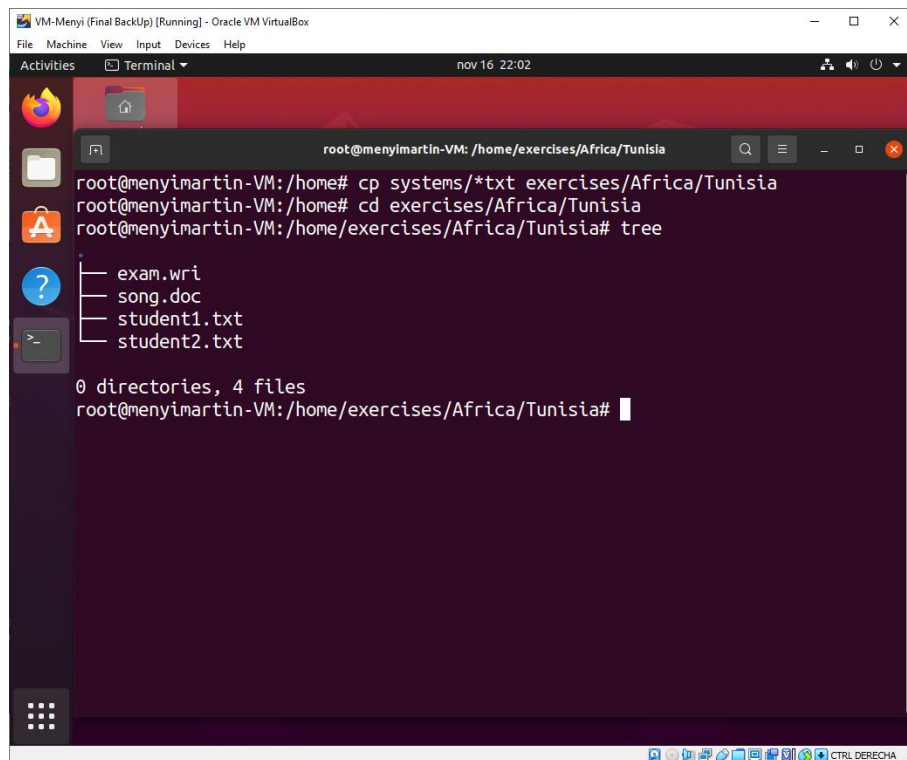


The screenshot shows the same terminal window after the deletion of the "THREE" directory. The user has executed the command `rm -rf ONE/THREE` to remove the directory and its contents. The user then runs the `tree` command again. The output shows the same directory structure as before, but the "THREE" subdirectory under "ONE" has been removed. The summary now indicates "9 directories, 6 files".

```
root@menyimartin-VM:/home/exercises# rm -rf ONE/THREE
root@menyimartin-VM:/home/exercises# tree
.
├── Africa
│   ├── Egypt
│   │   ├── radio.txt
│   │   └── song.doc
│   └── Tunisia
│       ├── exam.wri
│       └── song.doc
├── Asia
│   ├── Laos
│   │   └── aa.doc
│   ├── Others
│   └── Seul
│       └── tv.doc
├── ONE
│   └── TWO
└── TWO

9 directories, 6 files
root@menyimartin-VM:/home/exercises#
```


14. Copy the files that end with “txt” of the directory named “systems” to “Tunisia”

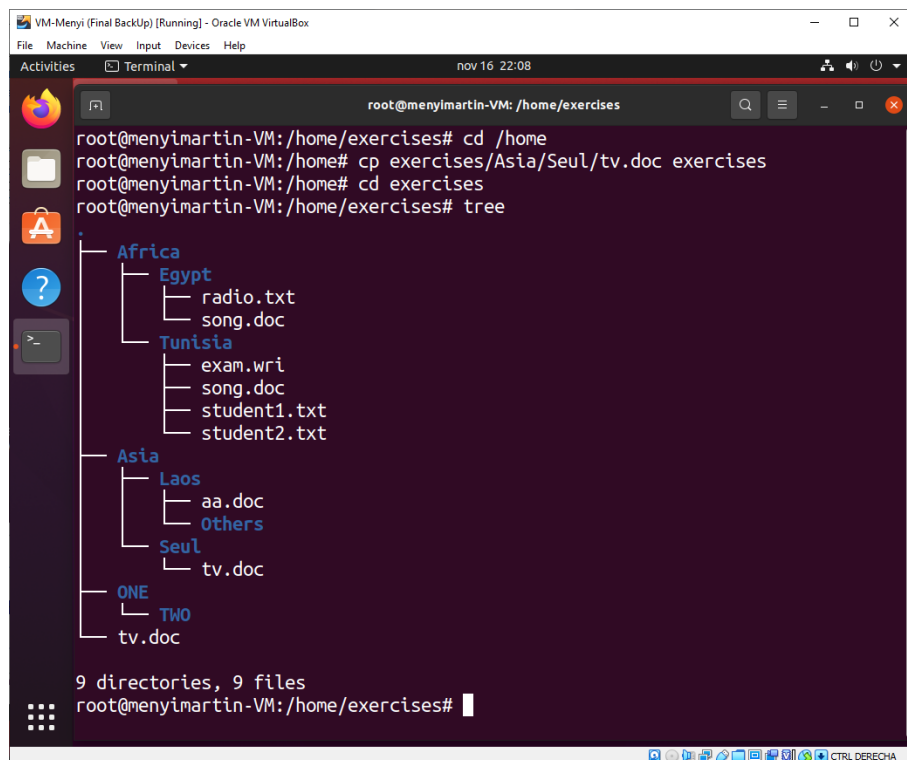


```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:02

root@menyimartin-VM: /home/exercises/Africa/Tunisia
root@menyimartin-VM:/home# cp systems/*txt exercises/Africa/Tunisia
root@menyimartin-VM:/home# cd exercises/Africa/Tunisia
root@menyimartin-VM:/home/exercises/Africa/Tunisia# tree
.
├── exam.wri
├── song.doc
├── student1.txt
└── student2.txt

0 directories, 4 files
root@menyimartin-VM:/home/exercises/Africa/Tunisia#
```

15. Copy the file “tv.doc” (located in “Seul”) to the directory named “exercises”

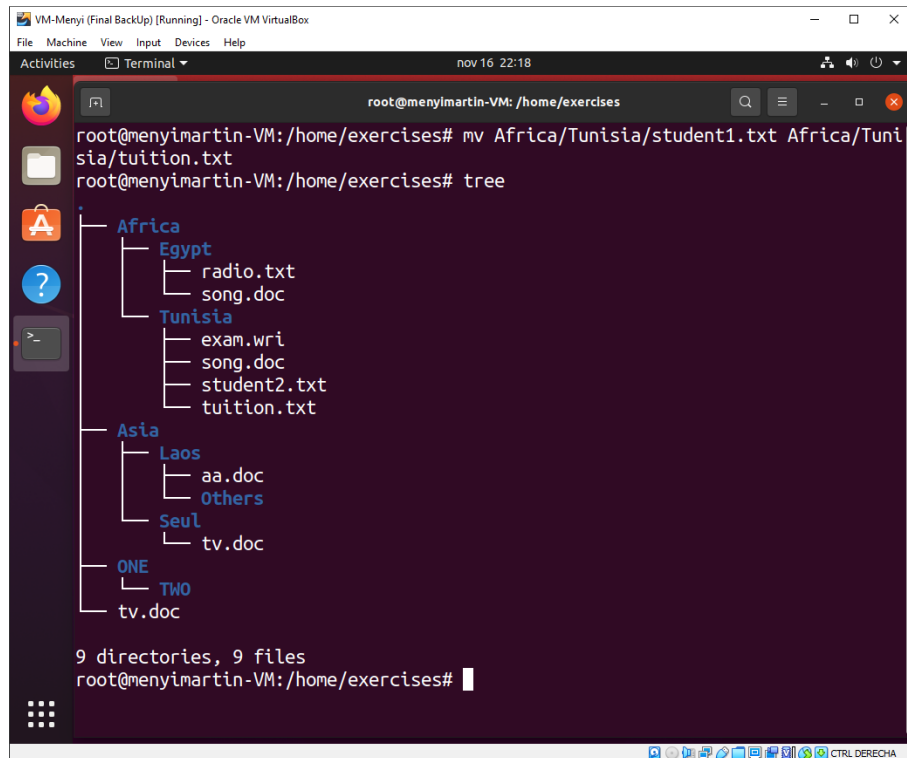


```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:08

root@menyimartin-VM: /home/exercises
root@menyimartin-VM:/home/exercises# cd /home
root@menyimartin-VM:/home# cp exercises/Asia/Seul/tv.doc exercises
root@menyimartin-VM:/home# cd exercises
root@menyimartin-VM:/home/exercises# tree
.
├── Africa
│   ├── Egypt
│   │   ├── radio.txt
│   │   └── song.doc
│   └── Tunisia
│       ├── exam.wri
│       ├── song.doc
│       ├── student1.txt
│       └── student2.txt
├── Asia
│   ├── Laos
│   │   └── aa.doc
│   ├── Others
│   └── Seul
│       └── tv.doc
├── ONE
│   └── TWO
└── tv.doc

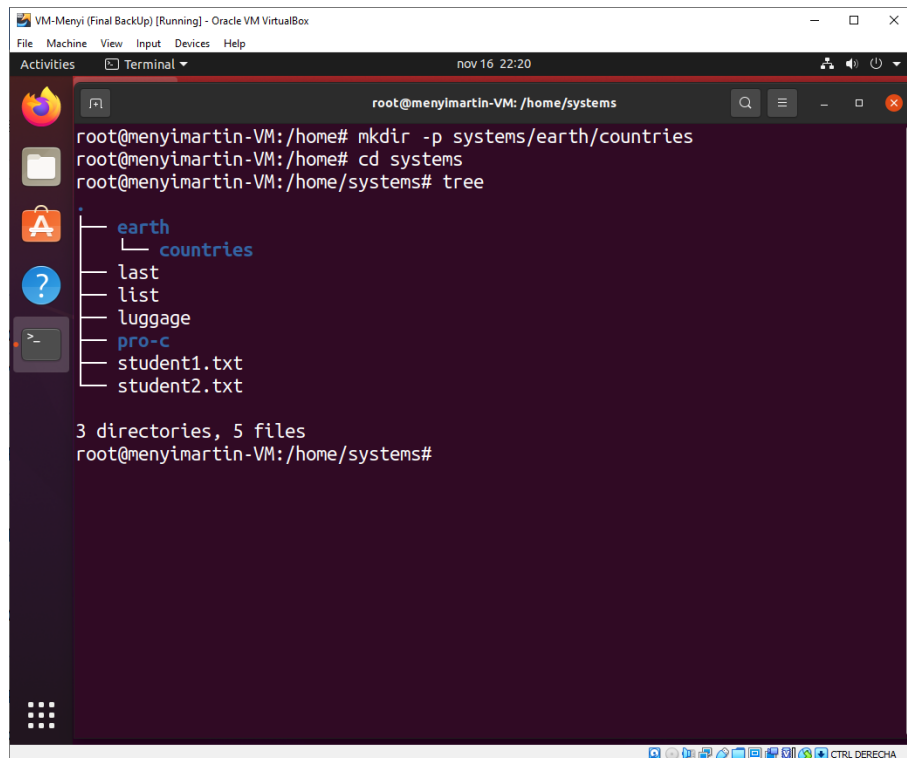
9 directories, 9 files
root@menyimartin-VM:/home/exercises#
```

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



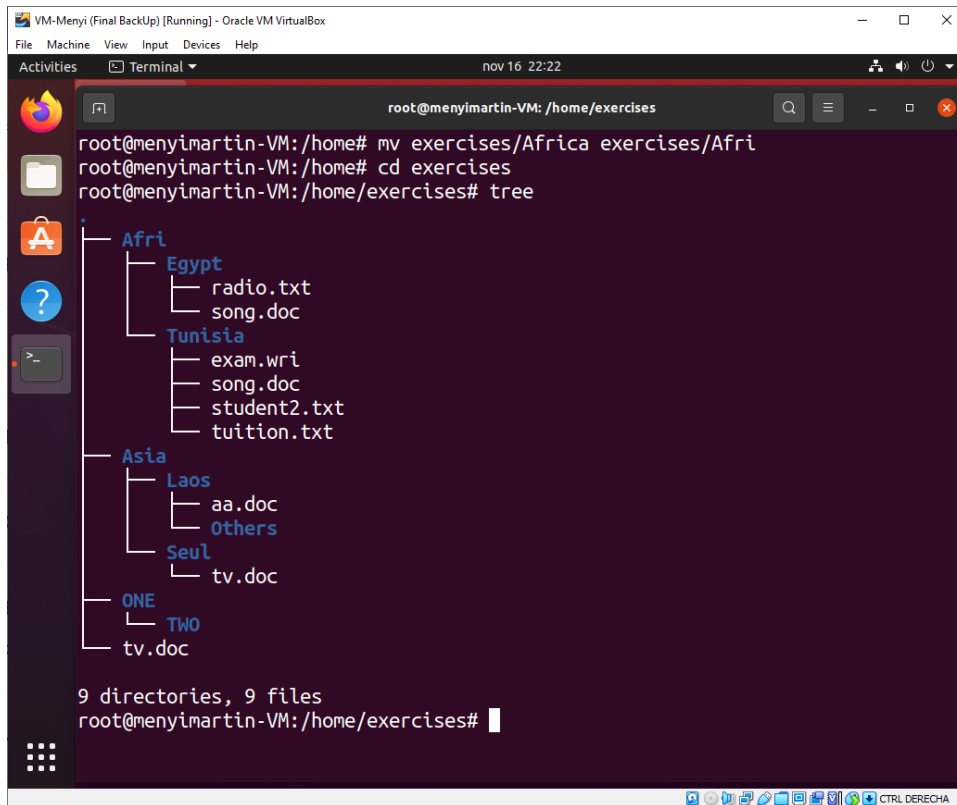
```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:18
root@menyimartin-VM: /home/exercises
root@menyimartin-VM:/home/exercises# mv Africa/Tunisia/student1.txt Africa/Tunisia/tuition.txt
root@menyimartin-VM:/home/exercises# tree
.
├── Africa
│   ├── Egypt
│   │   ├── radio.txt
│   │   └── song.doc
│   └── Tunisia
│       ├── exam.wri
│       ├── song.doc
│       ├── student2.txt
│       └── tuition.txt
├── Asia
│   ├── Laos
│   │   └── aa.doc
│   └── Others
│       └── tv.doc
├── ONE
│   └── TWO
│       └── tv.doc
└── 9 directories, 9 files
root@menyimartin-VM:/home/exercises#
```

17. Create a new directory called "earth" into "systems" and "countries" inside "earth"



```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:20
root@menyimartin-VM: /home/systems
root@menyimartin-VM:/home# mkdir -p systems/earth/countries
root@menyimartin-VM:/home# cd systems
root@menyimartin-VM:/home/systems# tree
.
├── earth
│   └── countries
├── last
├── list
├── luggage
├── pro-c
├── student1.txt
├── student2.txt
└── 3 directories, 5 files
root@menyimartin-VM:/home/systems#
```

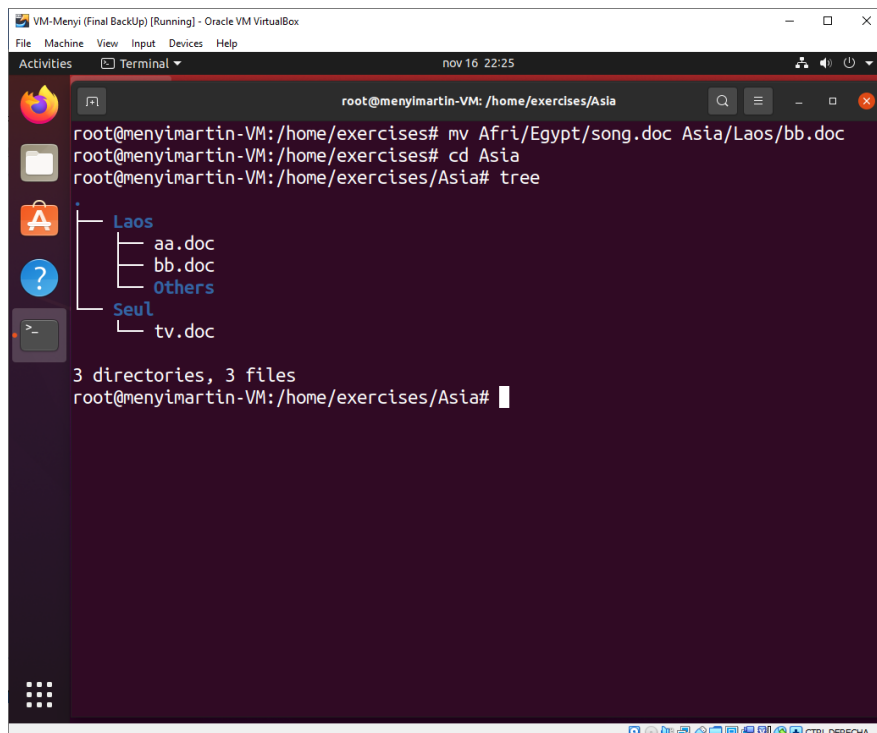
18. Rename “Africa” (located in “exercises”) to “Afri”



```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:22
root@menyimartin-VM: /home/exercises
root@menyimartin-VM:/home# mv exercises/Africa exercises/Afri
root@menyimartin-VM:/home# cd exercises
root@menyimartin-VM:/home/exercises# tree
.
├── Afri
│   ├── Egypt
│   │   ├── radio.txt
│   │   └── song.doc
│   ├── Tunisia
│   │   ├── exam.wri
│   │   ├── song.doc
│   │   ├── student2.txt
│   │   └── tuition.txt
│   ├── Asia
│   │   ├── Laos
│   │   │   ├── aa.doc
│   │   │   └── Others
│   │   └── Seul
│   │       └── tv.doc
│   ├── ONE
│   │   └── TWO
│   └── tv.doc
├── Asia
│   ├── Laos
│   │   ├── aa.doc
│   │   └── Others
│   └── Seul
│       └── tv.doc
├── ONE
│   └── TWO
└── tv.doc

9 directories, 9 files
root@menyimartin-VM:/home/exercises#
```

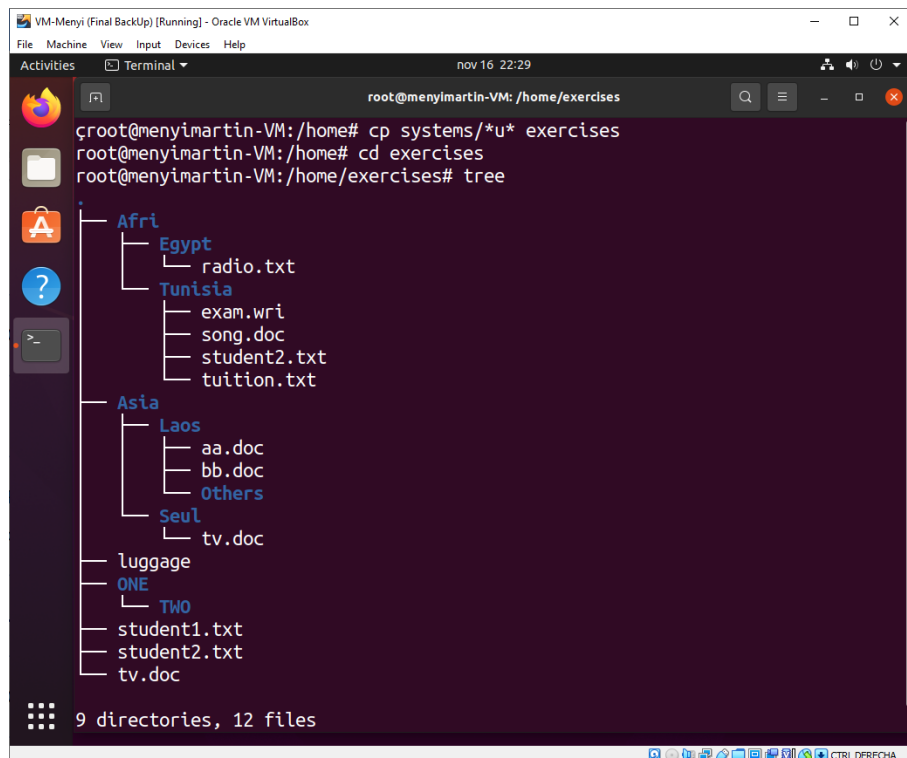
19. Move the file “song.doc”, which is located in Egypt, to “Laos” with the name “bb.doc”



```
VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:25
root@menyimartin-VM: /home/exercises/Asia
root@menyimartin-VM:/home/exercises# mv Afri/Egypt/song.doc Asia/Laos/bb.doc
root@menyimartin-VM:/home/exercises# cd Asia
root@menyimartin-VM:/home/exercises/Asia# tree
.
├── Laos
│   ├── aa.doc
│   ├── bb.doc
│   └── Others
├── Seul
│   └── tv.doc
├── ONE
│   └── TWO
└── tv.doc

3 directories, 3 files
root@menyimartin-VM:/home/exercises/Asia#
```

20. Copy the files whose name contains the letter “u” from “systems” to “exercises”

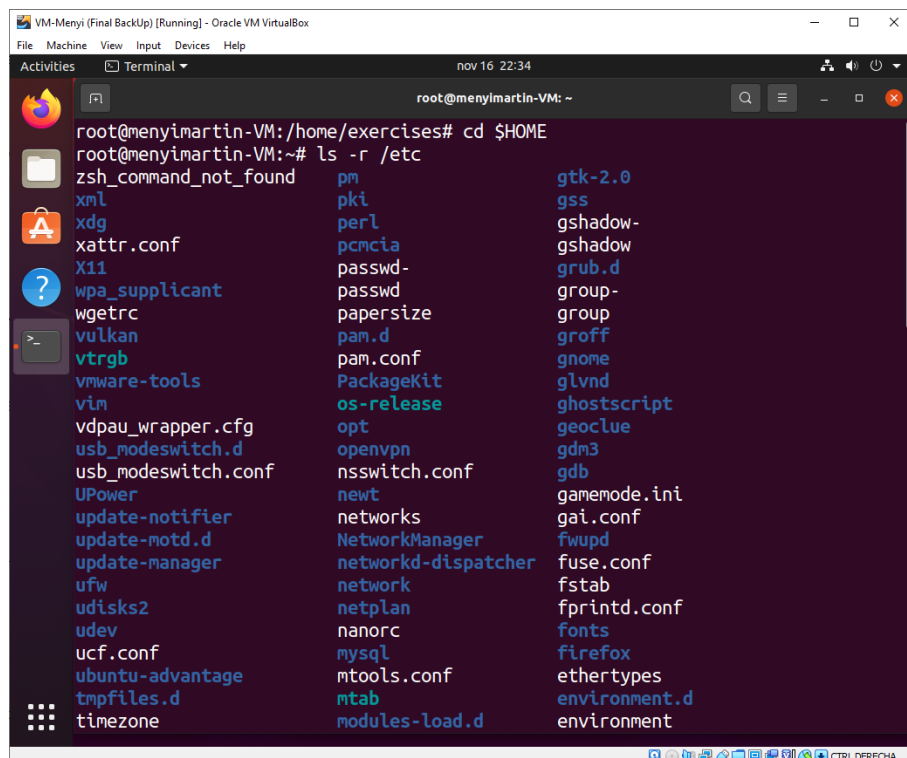


```

VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:29
root@menyimartin-VM: /home/exercises
root@menyimartin-VM:/home# cp systems/*u* exercises
root@menyimartin-VM:/home# cd exercises
root@menyimartin-VM:/home/exercises# tree
.
├── Afri
│   ├── Egypt
│   │   └── radio.txt
│   ├── Tunisia
│   │   ├── exam.wri
│   │   ├── song.doc
│   │   ├── student2.txt
│   │   └── tuition.txt
│   └── Laos
│       ├── aa.doc
│       ├── bb.doc
│       └── Others
│           └── tv.doc
├── luggage
├── ONE
├── TWO
├── student1.txt
├── student2.txt
└── tv.doc
9 directories, 12 files

```

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

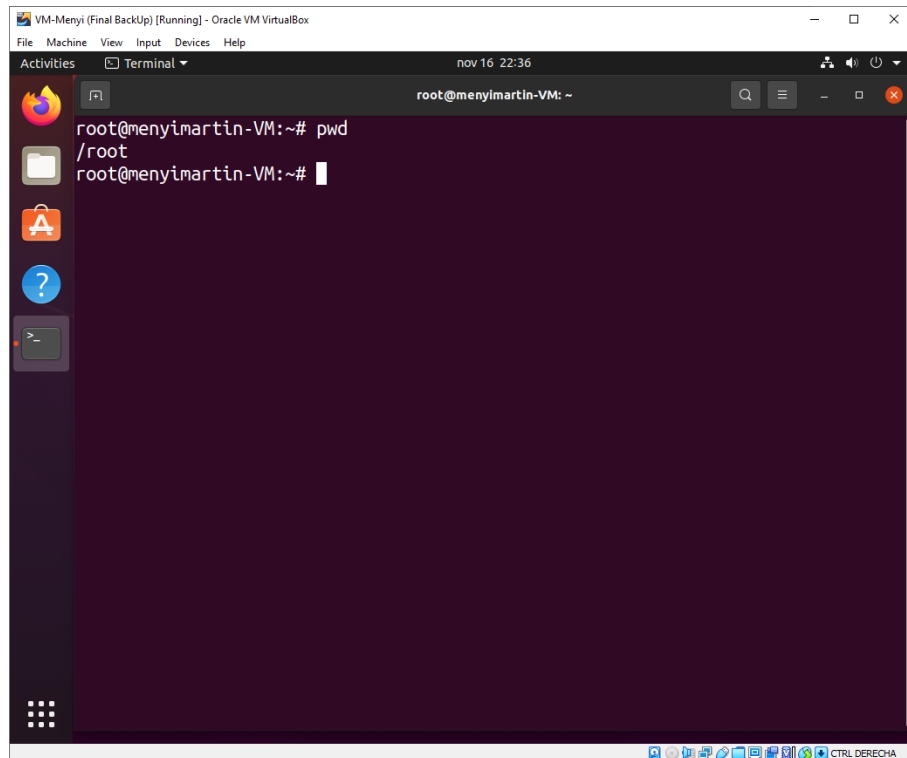


```

VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal nov 16 22:34
root@menyimartin-VM: ~
root@menyimartin-VM:/home/exercises# cd $HOME
root@menyimartin-VM:~# ls -r /etc
zsh_command_not_found
xml
xdg
xattr.conf
X11
wpa_supplicant
wgetrc
vulkan
vttrgb
vmware-tools
vim
vdpau_wrapper.cfg
usb_modeswitch.d
usb_modeswitch.conf
UPower
update-notifier
update-motd.d
update-manager
ufw
udisks2
udev
ucf.conf
ubuntu-advantage
tmpfiles.d
timezone
pm
pki
perl
pcmcia
passwd-
passwd
papersize
pam.d
pam.conf
PackageKit
os-release
opt
openvpn
nsswitch.conf
newt
networks
NetworkManager
networkd-dispatcher
network
netplan
nanorc
mysql
mtools.conf
mtab
modules-load.d
gtk-2.0
gss
gshadow-
gshadow
grub.d
group-
group
groff
gnome
glvnd
ghostscript
geoclue
gdm3
gdb
gamemode.ini
gai.conf
fwupd
fuse.conf
fstab
fprintd.conf
fonts
firefox
ethertypes
environment.d
environment

```

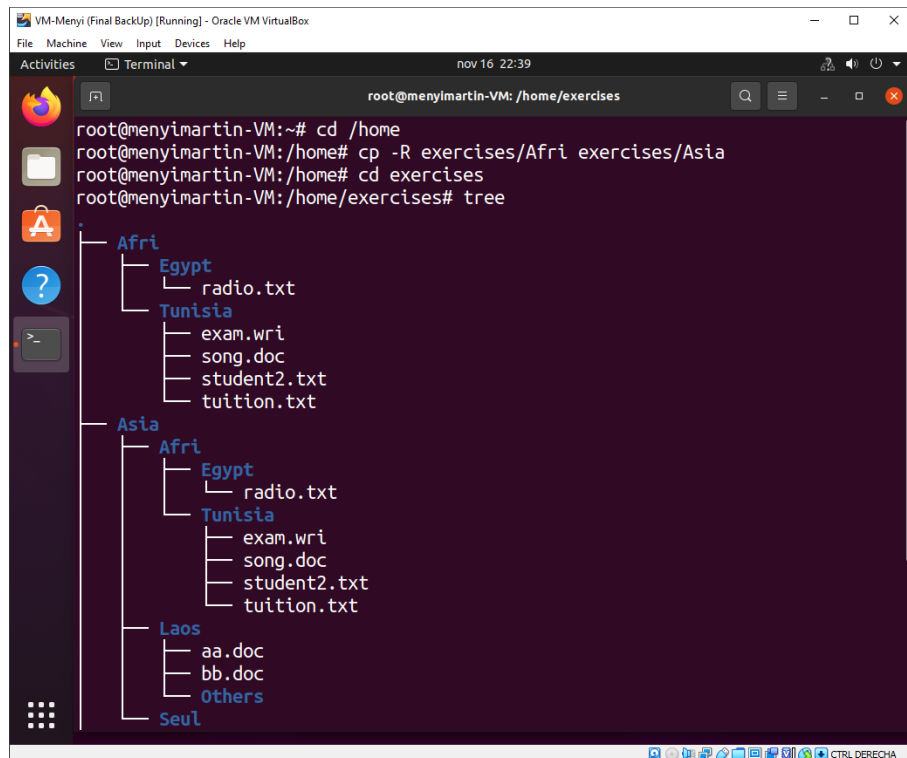
22. How can you print the name of the current directory?



The screenshot shows a terminal window titled "VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox". The terminal prompt is "root@menyimartin-VM: ~". The user has entered the command "pwd", and the output is "/root".

```
root@menyimartin-VM:~# pwd
/root
root@menyimartin-VM:~#
```

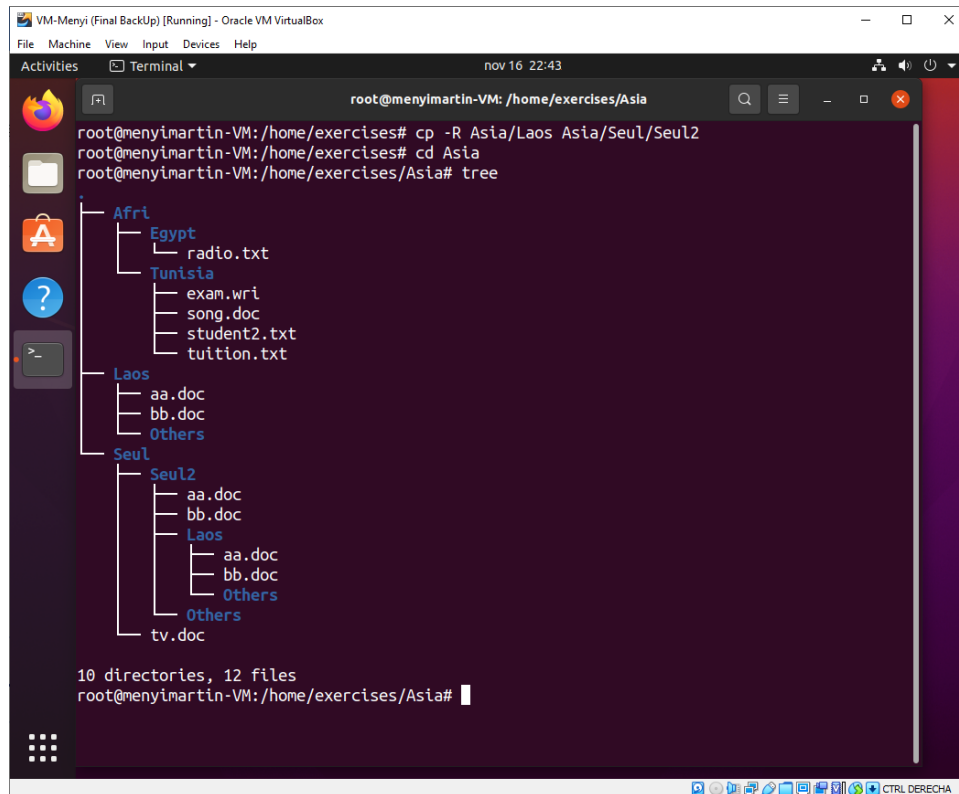
23. Copy the folder “Afri” including files and subdirectories to “Asia”



The screenshot shows a terminal window titled "VM-Menyi (Final BackUp) [Running] - Oracle VM VirtualBox". The terminal prompt is "root@menyimartin-VM: /home/exercises". The user has entered the command "cp -R exercises/Afri exercises/Asia". The output of the command is shown as a tree structure:

```
root@menyimartin-VM:~# cd /home
root@menyimartin-VM:/home# cp -R exercises/Afri exercises/Asia
root@menyimartin-VM:/home# cd exercises
root@menyimartin-VM:/home/exercises# tree
.
├── Afri
│   ├── Egypt
│   │   └── radio.txt
│   └── Tunisia
│       ├── exam.wri
│       ├── song.doc
│       ├── student2.txt
│       └── tuition.txt
└── Asia
    ├── Afri
    │   ├── Egypt
    │   │   └── radio.txt
    │   └── Tunisia
    │       ├── exam.wri
    │       ├── song.doc
    │       ├── student2.txt
    │       └── tuition.txt
    ├── Laos
    │   ├── aa.doc
    │   ├── bb.doc
    │   └── Others
    └── Seul
```

24. Move all the files and subdirectories of “Laos” to “Seul” and rename it to “Seul2



The screenshot shows a terminal window titled "VM-Menyi (Final Backup) [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
root@menyimartin-VM: /home/exercises/Asia
root@menyimartin-VM:/home/exercises# cp -R Asia/Laos Asia/Seul/Seul2
root@menyimartin-VM:/home/exercises# cd Asia
root@menyimartin-VM:/home/exercises/Asia# tree
```

```
tree
.
├── Afri
│   ├── Egypt
│   │   └── radio.txt
│   └── Tunisia
│       ├── exam.wri
│       ├── song.doc
│       ├── student2.txt
│       └── tuition.txt
├── Laos
│   ├── aa.doc
│   ├── bb.doc
│   └── Others
├── Seul
│   └── Seul2
│       ├── aa.doc
│       ├── bb.doc
│       ├── Laos
│       │   ├── aa.doc
│       │   └── bb.doc
│       ├── Others
│       └── tv.doc
└── tv.doc
```

10 directories, 12 files
root@menyimartin-VM:/home/exercises/Asia#