A. MANAGING DIRECTORIES

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

```
zeus@zeus-VirtualBox:~$ pwd
             /home/
zeus@zeus-VirtualBox:/home:~$ cd zeus
             /home/zeus
```

2. Create a directory called systems

```
zeus@zeus-VirtualBox:~$ mkdir systems
```

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

```
zeus@zeus-VirtualBox:~$ mkdir exercises
zeus@zeus-VirtualBox:~$ cd exercises/
zeus@zeus-VirtualBox:~/exercises$ mkdir programing
```

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.

```
zeus@zeus-VirtualBox:~/exercises$ cd ..
zeus@zeus-VirtualBox:~$ rm -rf exercises/
zeus@zeus-VirtualBox:~$ mkdir -p  exercises/programing
```

5. Print the contents of the root directory

```
zeus@zeus-VirtualBox:~$ ls -l /
    total 1978560
    lrwxrwxrwx   1 root root          7 ago 15 19:25 bin -> usr/bin
    drwxr-xr-x   4 root root       4096 ene  8 10:17 boot
    drwxrwxr-x   2 root root       4096 ago 15 19:31 cdrom
    drwxr-xr-x  18 root root       4100 ene 13 21:04 dev
    drwxr-xr-x 142 root root      12288 ene 12 19:20 etc
    drwxr-xr-x   3 root root       4096 ago 21 18:09 home
    lrwxrwxrwx   1 root root          7 ago 15 19:25 lib -> usr/lib
    lrwxrwxrwx   1 root root          9 ago 15 19:25 lib32 -> usr/lib32
    lrwxrwxrwx   1 root root          9 ago 15 19:25 lib64 -> usr/lib64
    lrwxrwxrwx   1 root root         10 ago 15 19:25 libx32 -> usr/libx32
    drwx------   2 root root      16384 ago 15 19:24 lost+found
    drwxr-xr-x  10 root root       4096 dic 20 16:21 media
    drwxr-xr-x   2 root root       4096 jul 31 18:28 mnt
```

```
drwxr-xr-x   4 root root       4096 nov  7 00:00 opt
dr-xr-xr-x 184 root root          0 ene 12 19:54 proc
drwx------  10 root root       4096 oct 23 17:55 root
drwxr-xr-x  26 root root        800 ene 13 12:34 run
lrwxrwxrwx   1 root root          8 ago 15 19:25 sbin -> usr/sbin
drwxr-xr-x   5 root root       4096 dic 15 23:01 snap
drwxr-xr-x   2 root root       4096 jul 31 18:28 srv
-rw-------   1 root root 2025953280 ago 15 19:25 swapfile
dr-xr-xr-x  13 root root          0 ene 12 19:54 sys
drwxrwxrwt  18 root root      12288 ene 13 22:05 tmp
drwxr-xr-x  14 root root       4096 jul 31 18:29 usr
drwxr-xr-x  14 root root       4096 dic 15 22:57 var
```

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

zeus@zeus-VirtualBox:$ ls -l /usr/bin/d*

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

zeus@zeus-VirtualBox:$ ls -lR /etc

zeus@zeus-VirtualBox:$ tree /etc

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

zeus@zeus-VirtualBox:$ touch systems/students{'',1,2}.txt   ^C

zeus@zeus-VirtualBox:$ touch systems/l{'ist','uggage','ast'}   ^C

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

zeus@zeus-VirtualBox:~$ ls -l systems/l*

```
-rw-rw-r-- 1 zeus zeus 0 ene 13 22:26 systems/last
-rw-rw-r-- 1 zeus zeus 0 ene 13 22:26 systems/list
-rw-rw-r-- 1 zeus zeus 0 ene 13 22:26 systems/luggage
```


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

zeus@zeus-VirtualBox:~$ ls -l systems/*.txt

```
-rw-rw-r-- 1 zeus zeus 0 ene 13 22:25 systems/students1.txt
-rw-rw-r-- 1 zeus zeus 0 ene 13 22:25 systems/students2.txt
-rw-rw-r-- 1 zeus zeus 0 ene 13 22:25 systems/students.txt
```


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

zeus@zeus-VirtualBox:/home$ pwd

/home

zeus@zeus-VirtualBox:/home$ mkdir $HOME/config

zeus@zeus-VirtualBox:/home$ ls -l zeus/

```
total 80
drwxrwxr-x  2 zeus zeus 4096 ene 13 22:37 config
drwxr-xr-x  2 zeus zeus 4096 ene 13 19:27 Desktop
```

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

zeus@zeus-VirtualBox:/home$ ls -ldp /etc/a*

```
drwxr-xr-x 3 root root  4096 jul 31 18:32 /etc/acpi/
-rw-r--r-- 1 root root  3028 jul 31 18:28 /etc/adduser.conf
drwxr-xr-x 3 root root  4096 jul 31 18:30 /etc/alsa/
drwxr-xr-x 2 root root 12288 oct  6 19:58 /etc/alternatives/
-rw-r--r-- 1 root root   401 jul 16 2019 /etc/anacrontab
-rw-r--r-- 1 root root   433 oct  2 2017 /etc/apg.conf
drwxr-xr-x 5 root root  4096 jul 31 18:30 /etc/apm/
drwxr-xr-x 3 root root  4096 jul 31 18:32 /etc/apparmor/
drwxr-xr-x 7 root root  4096 ene  8 10:21 /etc/apparmor.d/
drwxr-xr-x 5 root root  4096 dic 15 16:42 /etc/apport/
-rw-r--r-- 1 root root   769 ene 18 2020 /etc/appstream.conf
drwxr-xr-x 7 root root  4096 oct 23 18:05 /etc/apt/
drwxr-xr-x 3 root root  4096 jul 31 18:32 /etc/avahi/
```

zeus@zeus-VirtualBox:/home$ cp /etc/a* zeus/config/

```
cp: -r not specified; omitting directory '/etc/acpi'
cp: -r not specified; omitting directory '/etc/alsa'
cp: -r not specified; omitting directory '/etc/alternatives'
cp: -r not specified; omitting directory '/etc/apm'
cp: -r not specified; omitting directory '/etc/apparmor'
cp: -r not specified; omitting directory '/etc/apparmor.d'
cp: -r not specified; omitting directory '/etc/apport'
cp: -r not specified; omitting directory '/etc/apt'
cp: -r not specified; omitting directory '/etc/avahi'
```

zeus@zeus-VirtualBox:/home$ ls -l zeus/config/

```
total 16
-rw-r--r-- 1 zeus zeus 3028 ene 13 22:50 adduser.conf
-rw-r--r-- 1 zeus zeus  401 ene 13 22:50 anacrontab
-rw-r--r-- 1 zeus zeus  433 ene 13 22:50 apg.conf
-rw-r--r-- 1 zeus zeus  769 ene 13 22:50 appstream.conf
```

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

zeus@zeus-VirtualBox:/home$ rm zeus/config/*.config

zeus@zeus-VirtualBox:/home$ ls -l zeus/config/

```
total 4
-rw-r--r-- 1 zeus zeus 401 ene 13 22:50 anacrontab
```