A. MANAGING DIRECTORIES

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

cd /home/student

```
student@student-VirtualBox:~$ cd /home/student
student@student-VirtualBox:~$
```

Create a directory called systems mkdir systems

```
____ systems
____ Templates
____ Videos

20 directories, 2 files
student@student-VirtualBox:-$ mkdir systems
```

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

To delete the directories with just one command we can use *rm -rf exercises*, this command delete the directory and all its content.

```
student@student-VirtualBox:~$ rm -rf exercises
student@student-VirtualBox:~$ tree
.

Desktop
Documents
Downloads
Music
Pictures
Public
snap
tree
18
common
current -> 18
systems
Templates
Videos
```

To create severals directories at the same time we can use the command mkdir -p.

```
student@student-VirtualBox:~$ mkdir -p exercises/programming
student@student-VirtualBox:~$ tree
.
____ Desktop
___ Documents
___ Downloads
___ exercises
___ programming
```

5. Print the contents of the root directory.

```
student@student-VirtualBox:~$ ls /
bin cdrom etc lib lib64 lost+found mnt proc run snap sys usr
boot dev home lib32 libx32 media opt root sbin srv tmp var
student@student-VirtualBox:~$
```

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

```
student@student-VirtualBox:~$ ls /usr/bin/d*
/usr/bin/dash
                                                     /usr/bin/df
                                                     /usr/bin/dfu-tool
/usr/bin/date
                                                     /usr/bin/dh_bash-completion
/usr/bin/dbus-cleanup-sockets
/usr/bin/dbus-daemon
/usr/bin/dbus-launch
                                                     /usr/bin/dh_installxmlcatalogs
/usr/bin/dh_perl_openssl
/usr/bin/dbus-monitor
                                                     /usr/bin/diff
/usr/bin/dbus-run-session
                                                     /usr/bin/diff3
/usr/bin/dbus-send
                                                     /usr/bin/dig
/usr/bin/dbus-update-activation-environment
                                                     /usr/bin/dir
                                                     /usr/bin/dircolors
/usr/bin/dirmngr
usr/bin/dbus-uuidgen
/usr/bin/dc
/usr/bin/dconf
                                                     /usr/bin/dirmngr-client
/usr/bin/dd
                                                     /usr/bin/dirname
/usr/bin/ddstdecode
                                                     /usr/bin/dirsplit
/usr/bin/deallocvt
/usr/bin/debconf
                                                    /usr/bin/dmesg
/usr/bin/dnsdomainname
/usr/bin/debconf-apt-progress
                                                     /usr/bin/domainname
/usr/bin/debconf-communicate
                                                    /usr/bin/do-release-upgrade
/usr/bin/debconf-copydb
                                                    /usr/bin/dpkg
                                                     /usr/bin/dpkg-deb
/usr/bin/debconf-escape
/usr/bin/debconf-set-selections
/usr/bin/debconf-show
                                                     /usr/bin/dpkg-divert
/usr/bin/dpkg-maintscript-helper
/usr/bin/deb-systemd-helper
                                                     /usr/bin/dpkg-query
/usr/bin/deb-systemd-invoke
                                                     /usr/bin/dpkg-split
/usr/bin/deja-dup
                                                     /usr/bin/dpkg-statoverride
                                                     /usr/bin/dpkg-trigger
/usr/bin/delv
/usr/bin/desktop-file-edit
                                                     /usr/bin/driverless
                                                     /usr/bin/du
/usr/bin/dumpkeys
/usr/bin/desktop-file-install
/usr/bin/desktop-file-validate
                                                     /usr/bin/duplicity
/usr/bin/devdump
                                                     /usr/bin/dvipdf
```

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

```
student@student-VirtualBox:~$ ls -a /etc
                                fstab
                                                                            resolv.conf
                                fuse.conf
                                                  lsb-release
                                                  ltrace.conf
                                                                            грс
                                fwupd
adduser.conf
                                gai.conf
                                                  machine-id
                                                                            rsyslog.conf
                                gamemode.ini
                                                  magic
                                                                            rygel.conf
                                                  magic.mime
anacrontab
                                                  mailcap
apg.conf
                                                  mailcap.order
                                                  manpath.config
                                                  mime.types
                                                                            sensors3.conf
                                                  mke2fs.conf
                                                                            services
                                                  modules
appstream.conf
                                group
                                                                            shadow
                                group-
                                                                            shadow
```

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

```
student@student-VirtualBox:~$ mkdir -p systems/{student.txt,student1.txt,student2.txt,list,luggage,la student@student-VirtualBox:~$ tree

Desktop
Documents
Downloads
exercises
programming
Music
Pictures
Public
snap
tree
18
common
current -> 18
systems
list
list
liggage
student1.txt
student2.txt
student2.txt
```

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

```
student@student-VirtualBox:~$ ls systems/l*
systems/last:
systems/list:
systems/luggage:
```

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

```
student@student-VirtualBox:~$ ls systems/*txt
systems/student1.txt:
systems/student2.txt:
systems/student.txt:
```

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

```
student@student-VirtualBox:/home$ mkdir $HOME/config
student@student-VirtualBox:/home$ ls
lost=found student
student@student-VirtualBox:/home$ ls
lost=found student
student@student-VirtualBox:/home$ cd .
student@student-VirtualBox:/$ ls
bin boot cdrow dev etc home lib lib32 lib64 libx32 lost+found media mnt opt proc root run sbin snap srv sys usr var
student@student-VirtualBox:/$ cd $HOME
student@student-VirtualBox:/$ LS
LS: command not found
student@student-VirtualBox:-$ LS
LS: command not found
student@student-VirtualBox:-$ LS
LS: command not found
student@student-VirtualBox:-$ ls
config Desktop Documents Downloads exercises Music Pictures Public snap systems Templates Videos
```

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

```
student@student-VirtualBox:/$ cd $HOME
student@student-VirtualBox:~$ LS
LS: command not found
student@student-VirtualBox:~$ ls
config Desktop Documents Downloads exercises Music Pictures Public snap systems Templates Videos
student@student-VirtualBox:~$ cp /etc/a* $HOME/config
cp: -r not specified; omitting directory '/etc/alsa'
cp: -r not specified; omitting directory '/etc/alternatives'
cp: -r not specified; omitting directory '/etc/apparmor'
cp: -r not specified; omitting directory '/etc/apparmor.d'
cp: -r not specified; omitting directory '/etc/apparmor.d'
cp: -r not specified; omitting directory '/etc/apparmor.d'
cp: -r not specified; omitting directory '/etc/apport'
cp: -r not specified; omitting directory '/etc/apport'
cp: -r not specified; omitting directory '/etc/appar'
cp: -r no
```

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

```
student@student-VirtualBox:~$ rm $HOME/config/*conf
student@student-VirtualBox:~$
```