

S5

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# Linux Report

Compte Rendu des TP demandé

PREPARED BY  
ELAMRI Ilyass & Maha LAHLOU

EMSI

ammar.futur@gmail.com | ilyass.tech97@gmail.com





# à propos de page

## Mission

Réalisé pratiquement ce qu'on a vu  
durant tout le semestre sur le terminal  
associé au OS Linux.

## Vision

Accueillir des certain skills en command  
line linux (Ubuntu,Fedora...) , afin d'être  
capable à réaliser des scripts en bash.

# TP 3

## exercice 1 :

```
[elamriilyass@fedora ~]$ mkdir catalogue
[elamriilyass@fedora ~]$ ls
catalogue  Documents  file.mp3  gogo.c    MySripts  nvdossier  prog2.c  script1.sh  TOTO  Videos
Desktop    dodo.mp3   file.txt  Music     nice.mp3  Pictures   Public   script2.sh  toto.txt
didi.txt   Downloads  fofo.mp3  MyScripts nice.txt  prog1.c    rtl8821ce  Templates  tpunix
[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ touch fich1 fich2 fich3 prog.c f1.c f2.c
[elamriilyass@fedora catalogue]$ tree
.
├── f1.c
├── f2.c
├── fich1
├── fich2
├── fich3
└── prog.c

0 directories, 6 files
[elamriilyass@fedora catalogue]$
```

```
[elamriilyass@fedora ~]$ tree catalogue
catalogue
├── f1.c
├── f2.c
├── fich1
├── fich2
├── fich3
└── prog.c

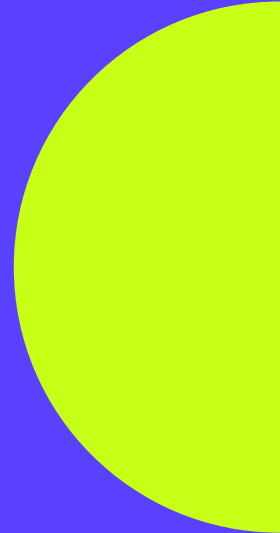
0 directories, 6 files
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ ls -l catalogue
total 0
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora ~]$
```

```

-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora ~]$ chmod 764 fich1
chmod: cannot access 'fich1': No such file or directory
[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ chmod 764 fich1
[elamriilyass@fedora catalogue]$ chmod 444 fich2
[elamriilyass@fedora catalogue]$ chmod 114 fich3
[elamriilyass@fedora catalogue]$ ls -l
total 0
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
---x--xr--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora catalogue]$ █

```



```

[elamriilyass@fedora catalogue]$ chmod u+rw , g+rw- , o+r-- fich1
chmod: cannot access ',': No such file or directory
chmod: cannot access 'g+rw-': No such file or directory
[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ touch fich4
[elamriilyass@fedora catalogue]$ cd -
[elamriilyass@fedora catalogue]$ cd catalogue
bash: cd: catalogue: No such file or directory
[elamriilyass@fedora catalogue]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  Documents  file.mp3  gogo.c    MySripts  nvdossier  prog2.c    script1.sh  TOTO      Videos
Desktop    dodo.mp3   file.txt  Music     nice.mp3  Pictures   Public     script2.sh  toto.txt
didi.txt   Downloads  fofo.mp3  MyScripts nice.txt  prog1.c    rtl8821ce  Templates   tpunix
[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ chmod u+rw , g+rw- , o+r-- fich1
chmod: cannot access ',': No such file or directory
chmod: cannot access 'g+rw-': No such file or directory
chmod: cannot access ',': No such file or directory
chmod: cannot access 'o+r--': No such file or directory
[elamriilyass@fedora catalogue]$ █

```

```

[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ touch fich4
[elamriilyass@fedora catalogue]$ cd -

```

```

[elamriilyass@fedora ~]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  Documents  file.mp3  gogo.c    MySripts  nvdossier  prog2.c    script1.sh  TOTO      Videos
Desktop    dodo.mp3   file.txt  Music     nice.mp3  Pictures   Public     script2.sh  toto.txt
didi.txt   Downloads  fofo.mp3  MyScripts nice.txt  prog1.c    rtl8821ce  Templates   tpunix
[elamriilyass@fedora ~]$ tree catalogue
catalogue
├── f1.c
├── f2.c
├── fich1
├── fich2
├── fich3
├── fich4
└── prog.c

0 directories, 7 files
[elamriilyass@fedora ~]$

```

```
[elamriilyass@fedora ~]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  Documents  file.mp3  gogo.c    MySripts  nvdossier  prog2.c  script1.sh  TOTO  Videos
Desktop    dodo.mp3  file.txt  Music     nice.mp3  Pictures   Public   script2.sh  toto.txt
didi.txt   Downloads fofo.mp3  MyScripts nice.txt  prog1.c   rtl8821ce  Templates  tpunix
[elamriilyass@fedora ~]$ tree catalogue
catalogue
├── f1.c
├── f2.c
├── fich1
├── fich2
├── fich3
├── fich4
└── prog.c

0 directories, 7 files
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ umask
0022
[elamriilyass@fedora ~]$ umask 022
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ chmod -R -X,a+rwX *.c
[elamriilyass@fedora ~]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  dodo.mp3  fofo.mp3  MySripts  Pictures  rtl8821ce  TOTO
Desktop    Downloads gogo.c    nice.mp3  prog1.c   script1.sh  toto.txt
didi.txt   file.mp3  Music     nice.txt  prog2.c   script2.sh  tpunix
Documents  file.txt  MyScripts nvdossier Public     Templates  Videos
[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ ls -l
total 0
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
---x--xr--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 22:14 fich4
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
```

```
[elamriilyass@fedora catalogue]$ chmod 755 *.c
[elamriilyass@fedora catalogue]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  dodo.mp3  fofo.mp3  MySripts  Pictures  rtl8821ce  TOTO
Desktop    Downloads gogo.c    nice.mp3  prog1.c   script1.sh  toto.txt
didi.txt   file.mp3  Music     nice.txt  prog2.c   script2.sh  tpunix
Documents  file.txt  MyScripts nvdossier Public     Templates  Videos
[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ ls -l
total 0
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
---x--xr--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 22:14 fich4
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora catalogue]$
```

```

[elamriilyass@fedora catalogue]$ chmod 755 *.c
[elamriilyass@fedora catalogue]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  dodo.mp3  fofo.mp3  MySripts  Pictures  rtl8821ce  TOTO
Desktop    Downloads gogo.c    nice.mp3  prog1.c   script1.sh toto.txt
didi.txt   file.mp3  Music     nice.txt  prog2.c   script2.sh tpunix
Documents  file.txt  MyScripts nv dossier Public    Templates Videos
[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ ls -l
total 0
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
---x--xr--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 22:14 fich4
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora catalogue]$

```

```

[elamriilyass@fedora ~]$ cd catalogue
[elamriilyass@fedora catalogue]$ ls -l
total 0
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
---x--xr--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 22:14 fich4
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora catalogue]$ chmod g-x fich3
[elamriilyass@fedora catalogue]$ ls -l
total 0
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
---x---r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 22:14 fich4
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora catalogue]$

```



```
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
---x---r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 22:14 fich4
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora catalogue]$ chmod u+w,o-r fich3
[elamriilyass@fedora catalogue]$ ls -l
total 0
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f1.c
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 f2.c
-rwxrw-r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich1
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich2
--wx-----. 1 elamriilyass elamriilyass 0 Jan 19 21:03 fich3
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 19 22:14 fich4
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 19 21:03 prog.c
[elamriilyass@fedora catalogue]$
```

```
[elamriilyass@fedora catalogue]$ chown toto fich3
chown: invalid user: 'toto'
[elamriilyass@fedora catalogue]$ sudo chown toto fich3
[sudo] password for elamriilyass:
chown: invalid user: 'toto'
[elamriilyass@fedora catalogue]$
```

## exercice 2 :

```
[elamriilyass@fedora ~]$ cd nvdossier
[elamriilyass@fedora nvdossier]$ ls -l
total 0
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 00:55 fic1
[elamriilyass@fedora nvdossier]$ chmod g+w fic1
[elamriilyass@fedora nvdossier]$ ls -l
total 0
-rw-rw-r--. 1 elamriilyass elamriilyass 0 Jan 20 00:55 fic1
[elamriilyass@fedora nvdossier]$
```

```
[elamriilyass@fedora nvdossier]$ chmod a+x fichier.bash
chmod: cannot access 'fichier.bash': No such file or directory
[elamriilyass@fedora nvdossier]$ cd ~
[elamriilyass@fedora ~]$ find . -name fichier.bash -type f
```

```
[elamriilyass@fedora ~]$ tree nvdossier
nvdossier
└─ fic1

0 directories, 1 file
[elamriilyass@fedora ~]$ cd nvdossier
[elamriilyass@fedora nvdossier]$ touch fichier.bash toto
[elamriilyass@fedora nvdossier]$ cd -
/home/elamriilyass
[elamriilyass@fedora ~]$ tree nvdossier
nvdossier
├─ fic1
├─ fichier.bash
└─ toto

0 directories, 3 files
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cd nvdossier
[elamriilyass@fedora nvdossier]$ ls -l
total 0
-rw-rw-r--. 1 elamriilyass elamriilyass 0 Jan 20 00:55 fic1
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 01:13 fichier.bash
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 01:13 toto
[elamriilyass@fedora nvdossier]$ chmod a+x fichier.bash
[elamriilyass@fedora nvdossier]$ ls -l
total 0
-rw-rw-r--. 1 elamriilyass elamriilyass 0 Jan 20 00:55 fic1
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 20 01:13 fichier.bash
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 01:13 toto
[elamriilyass@fedora nvdossier]$ █
```



```
-rw-rw-r--. 1 elamriilyass elamriilyass 0 Jan 20 00:55 fic1
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 20 01:13 fiche1.bash
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 01:13 toto
[elamriilyass@fedora nvdossier]$ chmod u+x toto
[elamriilyass@fedora nvdossier]$ ls-l
bash: ls-l: command not found...
[elamriilyass@fedora nvdossier]$ ls -l
total 0
-rw-rw-r--. 1 elamriilyass elamriilyass 0 Jan 20 00:55 fic1
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 20 01:13 fiche1.bash
-rwxr--r--. 1 elamriilyass elamriilyass 0 Jan 20 01:13 toto
[elamriilyass@fedora nvdossier]$
```

```
[elamriilyass@fedora nvdossier]$ chmod u-wx toto
[elamriilyass@fedora nvdossier]$ ls -l
total 0
-rw-rw-r--. 1 elamriilyass elamriilyass 0 Jan 20 00:55 fic1
-rwxr-xr-x. 1 elamriilyass elamriilyass 0 Jan 20 01:13 fiche1.bash
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 01:13 toto
[elamriilyass@fedora nvdossier]$
```

```
[elamriilyass@fedora nvdossier]$ chmod -R / INTERDIT COMMANDE KHATIRA
```

```
[elamriilyass@fedora nvdossier]$ chmod u=r,g=w,o=r NEW_FILE_NAME
```

### exercice 3 :

```
[elamriilyass@fedora ~]$ cd /home
[elamriilyass@fedora home]$ ls
elamriilyass
[elamriilyass@fedora home]$ cd /
[elamriilyass@fedora /]$ ls
afs  boot  etc  lib  lost+found  mnt  proc  run  srv  tmp  var
bin  dev  home  lib64  media  opt  root  sbin  sys  usr
[elamriilyass@fedora /]$ cd usr
[elamriilyass@fedora usr]$ ls -l
total 4
dr-xr-xr-x. 1 root root 35380 Jan  5 11:52 bin
drwxr-xr-x. 1 root root    0 Aug  9 14:27 games
drwxr-xr-x. 1 root root   16 Nov  5 09:40 i686-w64-mingw32
drwxr-xr-x. 1 root root  2218 Jan  5 11:52 include
dr-xr-xr-x. 1 root root   794 Dec 15 13:02 lib
dr-xr-xr-x. 1 root root 101738 Jan  5 11:53 lib64
drwxr-xr-x. 1 root root   9446 Jan  5 11:52 libexec
drwxr-xr-x. 1 root root    90 Nov  5 09:29 local
dr-xr-xr-x. 1 root root  12032 Jan  5 11:52 sbin
drwxr-xr-x. 1 root root   4618 Dec 22 20:41 share
drwxr-xr-x. 1 root root    86 Dec 15 12:55 src
lrwxrwxrwx. 1 root root    10 Aug  9 14:27 tmp -> ../var/tmp
drwxr-xr-x. 1 root root   16 Nov  5 09:40 x86_64-w64-mingw32
[elamriilyass@fedora usr]$
```

```
drwxr-xr-x. 1 elamriilyass elamriilyass    0 Jan 20 16:16 rep
```

```
[elamriilyass@fedora ~]$ su ilyas2
Password:
su: Authentication failure
[elamriilyass@fedora ~]$ sudo adduser ilyas2
[elamriilyass@fedora ~]$ sudo useradd ilyas2
useradd: user 'ilyas2' already exists
[elamriilyass@fedora ~]$ cd rep
```

```
[elamriilyass@fedora ~]$ sudo useradd toto
[elamriilyass@fedora ~]$ su toto
Password:
```

```
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$ lslogins -u
  UID USER          PROC PWD-LOCK PWD-DENY LAST-LOGIN GECOS
    0 root             138
1000 elamriilyass    78          16:12 ELAMRI Ilyass
1001 ilyas2          0
1002 ilyas22         0
1003 toto           0
[elamriilyass@fedora rep]$
```

```
[elamriilyass@fedora rep]$ il ne peut pas le supprimer car,il n'a que r permission pour fichier.txt
```

```
[elamriilyass@fedora ~]$ cd rep
[elamriilyass@fedora rep]$ ls
fichier.txt
[elamriilyass@fedora rep]$ ls -l
total 0
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$ chmod u-r fichier.txt
[elamriilyass@fedora rep]$ ls -l
total 0
--w-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$
```

```
[elamriilyass@fedora rep]$ cat fichier.txt
cat: fichier.txt: Permission denied
[elamriilyass@fedora rep]$ car j'ai retirer le droit read for owner user
```

```
[elamriilyass@fedora ~]$ cd rep
[elamriilyass@fedora rep]$ ls -l
total 0
--w-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$ chmod u+r fichier.txt
[elamriilyass@fedora rep]$ ls -l
total 0
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$ cat fichier.txt
[elamriilyass@fedora rep]$ more fichier.txt

[elamriilyass@fedora ~]$ cd rep
[elamriilyass@fedora rep]$ touch fichier2.txt
[elamriilyass@fedora rep]$ chmod u-w,g-w,o-w fichier2.txt
[elamriilyass@fedora rep]$ ls -l
total 0
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:50 fichier2.txt
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$
```

```
[elamriilyass@fedora rep]$ chmod u-w,g-w,o-w rep
chmod: cannot access 'rep': No such file or directory
[elamriilyass@fedora rep]$ cd -
/home/elamriilyass
[elamriilyass@fedora ~]$ chmod u-w,g-w,o-w rep
[elamriilyass@fedora ~]$ ls -l
total 16
```

```
[elamriilyass@fedora ~]$ chmod u-r,g-r,o-r rep
[elamriilyass@fedora ~]$ cd rep
[elamriilyass@fedora rep]$ ls -l
ls: cannot open directory '.': Permission denied
[elamriilyass@fedora rep]$
```

```
[elamriilyass@fedora ~]$ chmod u+r,g+r,o+r rep
[elamriilyass@fedora ~]$ ls -l
total 16
```

```
[elamriilyass@fedora ~]$ cd rep
[elamriilyass@fedora rep]$ ls -l
total 0
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:50 fichier2.txt
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$
```

```
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:50 fichier2.txt
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$ chmod u-w,g-w,o-w fichier.txt
[elamriilyass@fedora rep]$ ls -l
total 0
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:50 fichier2.txt
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$
```

```
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:50 fichier2.txt
-r--r--r--. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$ cat fichier.txt
[elamriilyass@fedora rep]$ nano fichier.txt
Received SIGHUP or SIGTERM
```

```
[elamriilyass@fedora rep]$ Impossible d'écrire ou modifier car il y a pas de w permission
```

```
[elamriilyass@fedora rep]$ cp fichier2.txt fichier3.txt
cp: cannot create regular file 'fichier3.txt': Permission denied
[elamriilyass@fedora rep]$
```

```
[elamriilyass@fedora ~]$ chmod u+w,g+w,o+w rep
[elamriilyass@fedora ~]$ ls -l
```

```
-rw-rw-rw-. 1 elamriilyass elamriilyass 0 Jan 20 16:50 fichier2.txt
-rw-rw-rw-. 1 elamriilyass elamriilyass 0 Jan 20 16:18 fichier.txt
[elamriilyass@fedora rep]$
```

```
[elamriilyass@fedora rep]$ cd -
/home/elamriilyass
[elamriilyass@fedora ~]$ chmod u-x,g-x,o-x rep
[elamriilyass@fedora ~]$ ls -l
```

total 12

```
[elamriilyass@fedora ~]$ cd rep
bash: cd: rep: Permission denied
[elamriilyass@fedora ~]$ man9derch n dkhel daba l rep apres -x
```

```
[elamriilyass@fedora ~]$ ls rep
ls: cannot access 'rep/fichier.txt': Permission denied
ls: cannot access 'rep/fichier2.txt': Permission denied
fichier2.txt  fichier.txt
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ ls rep
ls: cannot access 'rep/fichier.txt': Permission denied
ls: cannot access 'rep/fichier2.txt': Permission denied
[elamriilyass@fedora ~]$ Impossible même de changer directory ni de la lster apres avoir enlever le x permission
```



# TP 4

## exercice 1 :

```
[elamriilyass@fedora ~]$ mkdir DOC
[elamriilyass@fedora ~]$ cd DOC
[elamriilyass@fedora DOC]$ touch annee1 Annee2 annee4 annee41 annee510
```

```
[elamriilyass@fedora ~]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  DOC          Downloads  fofo.mp3  MyScripts  nice.txt  prog1.c  rep      script2.sh  toto.txt
Desktop    Documents   file.mp3   gogo.c    MySripts   nv dossier prog2.c   rtl8821ce  Templates  tpunix
didi.txt   dodo.mp3    file.txt   Music     nice.mp3   Pictures  Public   script1.sh  TOTO      Videos
[elamriilyass@fedora ~]$ tree DOC
DOC
├── annee1
├── Annee2
├── annee4
├── annee41
└── annee510

0 directories, 5 files
```

```
[elamriilyass@fedora DOC]$ mkdir R
[elamriilyass@fedora DOC]$ cd ~
```

```
[elamriilyass@fedora ~]$ tree DOC
DOC
├── annee1
├── Annee2
├── annee4
├── annee41
├── annee510
└── R
```

```

[elamriilyass@fedora ~]$ cp "[41]" /R/ch1
cp: cannot stat '[41]': No such file or directory
[elamriilyass@fedora ~]$ find /R/ -type f -name "[41]" -exec cp /R/ch1 {};
find: missing argument to '-exec'
[elamriilyass@fedora ~]$ whatis stat
stat (1)          - display file or file system status
stat (2)          - get file status
[elamriilyass@fedora ~]$ man stat
[elamriilyass@fedora ~]$ find /R/ -type f -name "[41]" -exec stat -c "%n %U %g %a" {} \;
find: '/R/': No such file or directory
[elamriilyass@fedora ~]$ cd ~
[elamriilyass@fedora ~]$ ls
catalogue  DOC          Downloads  fofo.mp3    MyScripts  nice.txt    prog1.c    rep          script2.sh  toto.txt
Desktop    Documents    file.mp3   gogo.c      MySripts   nv dossier  prog2.c    rtl8821ce   Templates  tpunix
didi.txt   dodo.mp3     file.txt   Music       nice.mp3   Pictures    Public     script1.sh  TOTO       Videos
[elamriilyass@fedora ~]$ find /R/ -type f -name "[41]" -exec stat -c "%n %U %g %a" {} \;
find: '/R/': No such file or directory
[elamriilyass@fedora ~]$ cd DOC
[elamriilyass@fedora DOC]$ cd R
[elamriilyass@fedora R]$ find /R/ -type f -name "[41]" -exec stat -c "%n %U %g %a" {} \;
find: '/R/': No such file or directory
[elamriilyass@fedora R]$ cd -
/home/elamriilyass/DOC
[elamriilyass@fedora DOC]$ find /R/ -type f -name "[41]" -exec stat -c "%n %U %g %a" {} \;
find: '/R/': No such file or directory
[elamriilyass@fedora DOC]$ J'ai pas arriv      faire cette comande dsl :(

```

```

[elamriilyass@fedora DOC]$ cp --preserve=all annee1 ch1
[elamriilyass@fedora DOC]$ cp --preserve=all Annee2 ch1
[elamriilyass@fedora DOC]$ cp --preserve=all annee4 ch1
[elamriilyass@fedora DOC]$ cp --preserve=all annee41 ch1
[elamriilyass@fedora DOC]$ cp --preserve=all annee510 ch1
[elamriilyass@fedora DOC]$ █

```

```

[elamriilyass@fedora DOC]$ ls ch1
ch1
[elamriilyass@fedora DOC]$ ls -l ch1
-rw-r--r--. 1 elamriilyass elamriilyass 0 Jan 20 20:17 ch1
[elamriilyass@fedora DOC]$ cat ch1
[elamriilyass@fedora DOC]$ more ch1

```

```

[elamriilyass@fedora ~]$ tree DOC
DOC
├── annee1
├── Annee2
├── annee4
├── annee41
├── annee510
├── R
│   └── ch1

```

```
[elamriilyass@fedora ~]$ tree DOC
```

```
DOC
```

```
├── annee1
├── Annee2
├── annee4
├── annee41
├── annee510
└── R
    └── ch1
```

```
[elamriilyass@fedora ~]$ date
```

```
Fri Jan 20 10:04:47 PM +01 2023
```

```
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ man date
```

```
[elamriilyass@fedora ~]$ date > ch1
```

```
[elamriilyass@fedora ~]$ cat ch1
```

```
Fri Jan 20 10:10:20 PM +01 2023
```

```
[elamriilyass@fedora ~]$
```

## exercice 2 :

```
[elamriilyass@fedora ~]$ mkdir essai-grep
[elamriilyass@fedora ~]$ ls
catalogue  Documents  file.txt    MySripts   prog1.c     script1.sh  tpunix
ch1        dodo.mp3   fofo.mp3    nice.mp3   prog2.c     script2.sh  Videos
Desktop    Downloads  gogo.c      nice.txt   Public      Templates
didi.txt   essai-grep Music       nv dossier rep        TOTO
DOC        file.mp3   MyScripts  Pictures   rtl8821ce   toto.txt
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cd essai-grep
[elamriilyass@fedora essai-grep]$ touch tomate poire pomme cerise Fraise fraise courgette POMME3 afraise
[elamriilyass@fedora essai-grep]$ cd ~
[elamriilyass@fedora ~]$ tree essai-grep
essai-grep
├── afraise
├── cerise
├── courgette
├── fraise
├── Fraise
├── poire
├── pomme
├── POMME3
└── tomate

0 directories, 9 files
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cd essai-grep
[elamriilyass@fedora essai-grep]$ ls | grep "Fraise|fraise"
[elamriilyass@fedora essai-grep]$
```

```
[elamriilyass@fedora essai-grep]$ ls | grep 'se$'
afraise
cerise
fraise
Fraise
[elamriilyass@fedora essai-grep]$
```

```
[elamriilyass@fedora essai-grep]$ ls | grep -E '[aiAI]'
```

afraise  
cerise  
fraise  
Fraise  
poire  
tomate

```
[elamriilyass@fedora essai-grep]$
```

```
[elamriilyass@fedora essai-grep]$ ls | grep -E '[1-9]'
```

POMME3

```
[elamriilyass@fedora essai-grep]$
```

```
[elamriilyass@fedora essai-grep]$ ls | grep -E '[mm|MM]'
```

pomme  
POMME3  
tomate

```
[elamriilyass@fedora essai-grep]$
```

```
[elamriilyass@fedora ~]$ cd ~  
[elamriilyass@fedora ~]$ ls  
catalogue  didi.txt  dodo.mp3  file.mp3  gogo.c    MySripts  nvdossier  prog2.c  rtl8821ce  Templates  tpunix  
chl        DOC       Downloads file.txt  Music     nice.mp3  Pictures   Public   script1.sh TOT0       Videos  
Desktop    Documents essai-grep fofo.mp3  MyScripts nice.txt  prog1.c    rep      script2.sh toto.txt  
[elamriilyass@fedora ~]$ rmdir -r essai-grep  
rmdir: invalid option -- 'r'  
Try 'rmdir --help' for more information.  
[elamriilyass@fedora ~]$ rm -r essai-grep  
[elamriilyass@fedora ~]$ ls  
catalogue  didi.txt  dodo.mp3  file.txt  Music     nice.mp3  Pictures  Public   script1.sh TOT0       Videos  
chl        DOC       Downloads fofo.mp3  MyScripts nice.txt  prog1.c   rep      script2.sh toto.txt  
Desktop    Documents file.mp3   gogo.c    MySripts  nvdossier prog2.c   rtl8821ce Templates tpunix  
[elamriilyass@fedora ~]$
```

## exercice 3 :

```
[elamriilyass@fedora ~]$ cd /usr/lib
[elamriilyass@fedora lib]$ ls
abrt-java-connector  dracut          fontconfig  jvm          modprobe.d  os-release  swidtag          udev
alsa                eclipse         games       jvm-common  modules     ostree      sysctl.d
binfmt.d            environment.d   gcc         jvm-private  modules-load.d  pam.d      sysimage
cpp                fedora-release grub         kbd         motd        polkit-1    systemd
cups               fedora-third-party issue        kdump       motd.d      python3.11  system-release-cpe
debug             firewallld     issue.net   kernel       mozilla     realmd      sysusers.d
dkms              firmware      java        locale       NetworkManager rpm         tmpfiles.d
[elamriilyass@fedora lib]$
```

```
[elamriilyass@fedora lib]$ cd ~
[elamriilyass@fedora ~]$ mkdir ~/inc | cp /usr/lib/lib* ~/inc/
```

```
[elamriilyass@fedora ~]$ cd /home
[elamriilyass@fedora home]$ cd usr/lib
bash: cd: usr/lib: No such file or directory
[elamriilyass@fedora home]$ cd /usr/lib
[elamriilyass@fedora lib]$ ls | grep -E '[abAB|cC]*'
abrt-java-connector
alsa
binfmt.d
cpp
cups
debug
dkms
dracut
eclipse
environment.d
fedora-release
fedora-third-party
firewalld
firmware
fontconfig
games
gcc
grub
issue
issue.net
java
jvm
jvm-common
jvm-private
kbd
kdump
kernel
1 - - 1 -
```



```
kbd
kdump
kernel
locale
modprobeb.d
modules
modules-loada.d
motd
motd.d
mozilla
NetworkManager
os-release
ostree
pam.d
polkit-1
python3.11
realmd
rpm
swidtag
sysctl.d
sysimage
systemd
system-release-cpe
sysusers.d
tmpfiles.d
udev
[elamriilyass@fedora lib]$ █
```

```
[elamriilyass@fedora lib]$ grep -E '[abAB|cC]*'> ~/connection/Abc.list
bash: /home/elamriilyass/connection/Abc.list: No such file or directory
[elamriilyass@fedora lib]$ cat ~/connection/Abc.list
```

```
[elamriilyass@fedora ~]$ grep '[abAB|cC]*'|> ~/connection/Abc.list
bash: /home/elamriilyass/connection/Abc.list: No such file or directory
toto
titi
tete
[elamriilyass@fedora ~]$ █
```

```
[elamriilyass@fedora ~]$ more /connection/Abc.list
more: cannot open /connection/Abc.list: No such file or directory
[elamriilyass@fedora ~]$ cat /connection/Abc.list
cat: /connection/Abc.list: No such file or directory
[elamriilyass@fedora ~]$ cat /Abc.list
cat: /Abc.list: No such file or directory
[elamriilyass@fedora ~]$ cat Abc.list
[elamriilyass@fedora ~]$ cat ~/connection/Abc.list
cat: /home/elamriilyass/connection/Abc.list: No such file or directory
[elamriilyass@fedora ~]$ cat Abc.list
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cat Abc.list
toto
titi
tete
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cat Abc.list >> Copie
[elamriilyass@fedora ~]$ cat Copie
toto
titi
tete
[elamriilyass@fedora ~]$
```

```
tete
[elamriilyass@fedora ~]$ touch Double | tee Abc.list Copie
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cat Abc.list Copie | tee Double
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cat Double | wc
  3      3     15
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cat > Temp << Hello world :  
Hello World !  
^C
```

```
[elamriilyass@fedora ~]$ echo "By BYe" | cat >> Temp  
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ cat Temp  
By BYe  
[elamriilyass@fedora ~]$ █
```

```
[elamriilyass@fedora lib]$ ls /usr/lib | grep -E '*[tT]*'  
abrt-t-java-connector  
alsa  
binfmt.t.d  
cpp  
cups  
debug  
dkms  
dracut  
eclipse  
environment.t.d  
fedora-release  
fedora-third-party  
firewalld  
firmware  
fontconfig  
games  
gcc  
grub  
issue  
libtcl8.6
```

modprobe.d  
modules  
modules-load.d  
motd  
motd.d  
mozilla  
NetworkManager  
os-release  
ostree  
pam.d  
polkit-1  
python3.11  
realmd  
rpm  
swidtag  
sysctl.d  
sysimage  
systemd  
system-release-cpe  
sysusers.d  
tmpfiles.d  
udev  
[elamriilyass@fedora lib]\$

# TP 5

## exercice 1 :

```
[elamriilyass@fedora ~]$ vi huhu.txt
[elamriilyass@fedora ~]$
```

```
Comment se connecter sous UNIX ?
```

```
~
~
~
~
~
~
~
~
~
```

```
Comment se connecter sous UNIX ?
```

Le premier concept est important à garder en mémoire avant de travailler avec UNIX sa version PC Linux est qu'il s'agit d'un system multi-utilisateurs. L'accès à la machine UNIX doit donc être contrôlé. Pour être enregistré sous UNIX , il faut avoir un compte utilisateur (login,password) crée par l'administrateur system. L'administrateur est un super utilisateur qui a les droits de gestion du system (login root ou su).

```
~
~
~
~
~
~
~
```

```
~
~
~
```

```
:wq fichier
```

est qu'il s'agit  
sous UNIX , il fa  
super utilisateur

plus sûr possible

1,46-44 All



## Comment se connecter sous UNIX ?

Le premier concept est important à garder en mémoire avant de travailler avec UNIX ou sa version PC Linux est qu'il s'agit d'un système multi-utilisateurs. L'accès à la machine UNIX doit donc être contrôlé. Pour être enregistré sous UNIX, il faut avoir un compte utilisateur (login, password) créé par l'administrateur système. L'administrateur est un super utilisateur qui a les droits de gestion du système (login root ou su).

```
login :(Taper votre nom)
```

Le System affiche alors le message :

password : (Vous devez alors entrer votre mot de passe)

- \*utiliser des majuscules et des minuscules

- \*utiliser des chiffres et des caractères spéciaux

\*7 à 8 caractères de long

- \*concaténer des mots pour en créer un autre

 $\sim$  $\sim$  $\sim$ 

2

2

 $\sim$ 

~

2

2

2

3

2

2

2

2

2

2

: wq

busin. / 25 / ca. no such title or directory

```
[elamriilyass@fedora ~]$ vi fichier /le\|la
```

2 files to edit

```
[elamriilyass@fedora ~]$ vi fichier /le\|la
```

2 files to edit

```
[elamriilyass@fedora ~]$
```

```
[elamriilyass@fedora ~]$ vi +1d fiche1
```

```
[elamriilyass@fedora ~]$
```

100

All

```
[elamriilyass@10 ~]$ vi fiche1
[elamriilyass@10 ~]$ vi "/l[e,a]" fiche1
```

```
~  
~  
~  
~  
~  
"/l[e,a]" [New]
```

# TP 2

## exercice 1:

```
[ilyasselamri@10 ~]$ mkdir tp2unix  
[ilyasselamri@10 ~]$ ls  
Desktop    Downloads  Pictures   Templates  Videos  
Documents  Music      Public     tp2unix  
[ilyasselamri@10 ~]$ cd tp2unix  
[ilyasselamri@10 tp2unix]$ touch fruit.price  
[ilyasselamri@10 tp2unix]$ tree tp2unix  
tp2unix [error opening dir]  
  
0 directories, 0 files  
[ilyasselamri@10 tp2unix]$ cd ~  
[ilyasselamri@10 ~]$ ls  
Desktop    Downloads  Pictures   Templates  Videos  
Documents  Music      Public     tp2unix  
[ilyasselamri@10 ~]$ tree tp2unix  
tp2unix  
├── fruit.price
```

```
[ilyasselamri@10 ~]$ cd tp2unix
[ilyasselamri@10 tp2unix]$ cat > fruit.price
apples : 09
apricot : 7
bergamot : 12
blackberry : 39
cantaloupe : 10
cherry : 6
citron : 5
elderberry : 79
grape : 59
grapefruit : 67
huckleberry : 66
INdian mulberry : 99
kiwi : 19
lemon : 8
mango : 34
melon ! 50
non : 56
nut : 19
orange : 14
peach : 17
pear : 29
sloe : 34
strawberry : 80
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ more fruit.price
apples : 09
apricot : 7
bergamot : 12
blackberry : 39
cantaloupe : 10
cherry : 6
citron : 5
elderberry : 79
grape : 59
grapefruit : 67
huckleberry : 66
INdian mulberry : 99
kiwi : 19
lemon : 8
mango : 34
melon ! 50
non : 56
nut : 19
orange : 14
peach : 17
pear : 29
sloe : 34
strawberry : 80
```

lemon : 8  
mango : 34  
melon ! 50  
non : 56  
nut : 19  
orange : 14  
peach : 17  
pear : 29  
sloe : 34  
strawberry : 80

(END)





```
[ilyasselamri@10 tp2unix]$ grep 'berry' fruit.price
blackberry : 39
elderberry : 79
huckleberry : 66
INdian mulberry : 99
strawberry : 80
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -i "appLESS" fruit.price
[ilyasselamri@10 tp2unix]$ grep -i 'appLESS' fruit.price
[ilyasselamri@10 tp2unix]$ grep -ri 'appLESS' fruit.price
[ilyasselamri@10 tp2unix]$ grep
```

```
[ilyasselamri@10 tp2unix]$ grep -v 'apples' fruit.price
apricot : 7
bergamot : 12
blackberry : 39
cantaloupe : 10
cherry : 6
citron : 5
elderberry : 79
grape : 59
grapefruit : 67
huckleberry : 66
INdian mulberry : 99
kiwi : 19
lemon : 8
mango : 34
melon ! 50
non : 56
nut : 19
orange : 14
peach : 17
pear : 29
sloe : 34
strawberry : 80
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -i "^s" fruit.price
sloe : 34
strawberry : 80
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -i "^s" fruit.price
sloe : 34
strawberry : 80
[ilyasselamri@10 tp2unix]$ grep -E "^[aeiouAEIOU]" fruit.price
apples : 09
apricot : 7
elderberry : 79
INDian mulberry : 99
orange : 14
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -E "^[l|[a-g]]" fruit.price
[ilyasselamri@10 tp2unix]$ grep -E "^[l|a-g]" fruit.price
apples : 09
apricot : 7
bergamot : 12
blackberry : 39
cantaloupe : 10
cherry : 6
citron : 5
elderberry : 79
grape : 59
grapefruit : 67
lemon : 8
[ilyasselamri@10 tp2unix]$
```

```
[ilyassalamri@10 tp2unix]$ grep -v -E "^[aeiouAEIOU]" fruit.price
bergamot : 12
blackberry : 39
cantaloupe : 10
cherry : 6
citron : 5
grape : 59
grapefruit : 67
huckleberry : 66
kiwi : 19
lemon : 8
mango : 34
melon : 50
non : 56
nut : 19
peach : 17
pear : 29
sloe : 34
strawberry : 80
[ilyassalamri@10 tp2unix]$
```

```
[ilyassalamri@10 tp2unix]$ grep -v -E "^[a-m]" fruit.price
INdian mulberry : 99
non : 56
nut : 19
orange : 14
peach : 17
pear : 29
sloe : 34
strawberry : 80
[ilyassalamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -E '79$' fruit.price
elderberry : 79
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -E '9$' fruit.price | grep -v -E '39$|69$|79$|89$' fruit.price
apples : 09
apricot : 7
bergamot : 12
blackberry : 39
cantaloupe : 10
cherry : 6
citron : 5
grape : 59
grapefruit : 67
huckleberry : 66
INdian mulberry : 99
kiwi : 19
lemon : 8
mango : 34
melon ! 50
non : 56
nut : 19
orange : 14
peach : 17
pear : 29
sloe : 34
strawberry : 80
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -v -E '[9$39$69$79$89$]' fruit.price
bergamot : 12
cantaloupe : 10
citron : 5
melon ! 50
orange : 14
[ilyasselamri@10 tp2unix]$ grep -v -E '^(.*[^09] | .[^39] | .[^79]))$' fruit.price
apples : 09
apricot : 7
bergamot : 12
blackberry : 39
cantaloupe : 10
cherry : 6
citron : 5
elderberry : 79
grape : 59
grapefruit : 67
huckleberry : 66
INDian mulberry : 99
kiwi : 19
lemon : 8
mango : 34
melon ! 50
non : 56
nut : 19
orange : 14
peach : 17
pear : 29
sloe : 34
strawberry : 80
[ilyasselamri@10 tp2unix]$
```

```
[ilyasselamri@10 tp2unix]$ grep -E 'r{2} | m{2}' fruit.price
[ilyasselamri@10 tp2unix]$ grep -E -n 'r{2} | m{2}' fruit.price
[ilyasselamri@10 tp2unix]$
```

# TP 6

## exercice 1 :

```
[elamriilyass@10 ~]$ cd
[elamriilyass@10 ~]$ ls
Abc.list  DOC      file.mp3  Music     Pictures  script1.sh  tpunix
catalogue Documents file.txt  MyScripts prog1.c    script2.sh  Videos
ch1       dodo.mp3 fofo.mp3  MySripts  prog2.c    Temp
Copie     Double   gogo.c    nice.mp3   Public     Templates
top - 21:56:51 up 6 min,  1 user,  load average: 0.31, 0.95, 0.61
Tasks:  total,   running, sleeping,   stopped, zombie
%Cpu(s):  us,    sy,    ni,    id,    wa,    hi,    si,    st
MiB Mem :    total,    free,    used,    buff/cache
MiB Swap:    total,    free,    used.    avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1688	elamrii+	20	0	3483044	290368	97468	S	3.0	14.4	0:10.66	gnome-shell
2453	elamrii+	20	0	776064	53492	42384	S	1.0	2.7	0:00.94	gnome-terminal-
617	systemd+	20	0	16168	5804	4880	S	0.3	0.3	0:01.03	systemd-oomd
2198	elamrii+	20	0	431584	2008	1744	S	0.3	0.1	0:00.26	VBoxClient
1	root	20	0	106528	13420	7488	S	0.0	0.7	0:03.77	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_flushwq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
9	root	20	0	0	0	0	I	0.0	0.0	0:01.16	kworker/u2:0-btrfs-delalloc
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
11	root	20	0	0	0	0	I	0.0	0.0	0:00.97	kworker/u2:1-events_unbound
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_kthread
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
15	root	20	0	0	0	0	S	0.0	0.0	0:00.13	ksoftirqd/0
16	root	20	0	0	0	0	T	0.0	0.0	0:00.00	rcu_gp

```
16 root      20  0      0      0      0
17 root      rt   0      0      0      0
18 root      20  0      0      0      0
19 root      20  0      0      0      0
20 root      20  0      0      0      0
21 root      0 -20     0      0      0
22 root      20  0      0      0      0
24 root      20  0      0      0      0
```

```
[elamriilyass@10 ~]$ sudo htop
[sudo] password for elamriilyass:
sudo: htop: command not found
[elamriilyass@10 ~]$ sudo apt install htop
Reading package lists... Done
Building dependency tree... Done
E: Unable to locate package htop
[elamriilyass@10 ~]$
```

```
[elamriilyass@10 ~]$ top
```

```
[elamriilyass@10 ~]$ top & top & top & top
```

```
[1] 2565
```

```
[2] 2566
```

```
[3] 2567
```

```
top - 21:59:53 up 9 min, 1 user, load average: 0.16, 0.58, 0.52
```

```
Tasks: total, running, sleeping, stopped, zombie
```

```
%Cpu(s): us, sy, ni, id, wa, hi, si, st
```

```
MiB Mem : total, free, used, buff/cache
```

```
MiB Swap: total, free, used, avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1688	elamrii+	20	0	3548620	290916	97996	S	1.7	14.4	0:14.64	gnome-shell
2453	elamrii+	20	0	776320	53500	42384	S	1.0	2.7	0:02.05	gnome-terminal-
617	systemd+	20	0	16168	5804	4880	S	0.7	0.3	0:01.51	systemd-oemd
2190	elamrii+	20	0	431068	1820	1636	S	0.3	0.1	0:00.24	VBoxClient
2198	elamrii+	20	0	431584	1968	1708	S	0.3	0.1	0:00.43	VBoxClient
1	root	20	0	106528	13212	7328	S	0.0	0.7	0:03.79	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_flushwq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq

```
[1] Stopped top
```

```
[2]- Stopped top
```

```
[3]+ Stopped top
```

```
[elamriilyass@10 ~]$
```

```
[elamriilyass@10 ~]$ fg%3
bash: fg%3: command not found...
[elamriilyass@10 ~]$ sudo atp install fg
sudo: atp: command not found
[elamriilyass@10 ~]$ sudo apt install fg
Reading package lists... Done
Building dependency tree... Done
E: Unable to locate package fg
[elamriilyass@10 ~]$
```

```
[elamriilyass@10 ~]$ fg %3
top

top: failed tty set: Interrupted system call
[elamriilyass@10 ~]$
```

```
[elamriilyass@10 ~]$ kill %1 %2 %3 %4
bash: kill: %3: no such job

bash: kill: %4: no such job
[1]-  Done                    top
[2]+  Done                    top
[elamriilyass@10 ~]$
```



```
#!/bin/bash
while true
do
echo Bonjour
sleep 30
done

~

~

~

~

~
```

```
[elamriilyass@10 ~]$ vim toto
[elamriilyass@10 ~]$ vim bonjour.sh
[elamriilyass@10 ~]$ ./toto &
[1] 2638
bash: ./toto: Permission denied
[1]+  Exit 126                  ./toto
[elamriilyass@10 ~]$ chmod u+x toto
[elamriilyass@10 ~]$ ./toto &
[1] 2650
[elamriilyass@10 ~]$
```

```
[1]+  Done                               ./toto
[elamriilyass@10 ~]$ jobs
```

```
[elamriilyass@10 ~]$ kill -9bonjour
bash: kill: 9bonjour: invalid signal specification
[elamriilyass@10 ~]$ kill -9 535
```

## exercice 2:

```
[elamriilyass@10 ~]$ ps
  PID TTY          TIME CMD
 2471 pts/0        00:00:00 bash
 2716 pts/0        00:00:00 ps
[elamriilyass@10 ~]$
```

```
[elamriilyass@10 ~]$ ps -u
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
elamrii+    1567  0.0  0.2 374152  5180 tty2      Ssl+  21:51   0:00 /usr/libexec/gdm-wayland-session /usr/bin/gnome-session
elamrii+    1581  0.0  0.5 514600 10504 tty2      Sl+   21:51   0:00 /usr/libexec/gnome-session-binary
elamrii+    2471  0.0  0.2 224780  5920 pts/0      Ss   21:55   0:00 bash
elamrii+    2721  0.0  0.0 224300  1444 pts/0      R+   22:19   0:00 ps -u
[elamriilyass@10 ~]$
```

```
[elamriilyass@10 ~]$ ps aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  0.2  0.6 106528 13124 ?        Ss   21:50   0:03 /usr/lib/systemd/systemd rhgb --switched-root --system --deserialize 35
root           2  0.0  0.0      0     0 ?        S    21:50   0:00 [kthreadd]
root           3  0.0  0.0      0     0 ?        I<   21:50   0:00 [rcu_gp]
root           4  0.0  0.0      0     0 ?        I<   21:50   0:00 [rcu_par_gp]
root           5  0.0  0.0      0     0 ?        I<   21:50   0:00 [slub_flushwq]
root           6  0.0  0.0      0     0 ?        I<   21:50   0:00 [netns]
root           8  0.0  0.0      0     0 ?        I<   21:50   0:00 [kworker/0:0H-events_highpri]
root          10  0.0  0.0      0     0 ?        I<   21:50   0:00 [mm_percpu_wq]
root          12  0.0  0.0      0     0 ?        I    21:50   0:00 [rcu_tasks_kthread]
root          13  0.0  0.0      0     0 ?        I    21:50   0:00 [rcu_tasks_rude_kthread]
root          14  0.0  0.0      0     0 ?        I    21:50   0:00 [rcu_tasks_trace_kthread]
root          15  0.0  0.0      0     0 ?        S    21:50   0:00 [ksoftirqd/0]
root          16  0.0  0.0      0     0 ?        I    21:50   0:00 [rcu_preempt]
root          17  0.0  0.0      0     0 ?        S    21:50   0:00 [migration/0]
root          19  0.0  0.0      0     0 ?        S    21:50   0:00 [cpuhp/0]
root          20  0.0  0.0      0     0 ?        S    21:50   0:00 [kdevtmpfs]
root          21  0.0  0.0      0     0 ?        I<   21:50   0:00 [inet_frag_wq]
root          22  0.0  0.0      0     0 ?        S    21:50   0:00 [kauditd]
root          24  0.0  0.0      0     0 ?        S    21:50   0:00 [oom_reaper]
root          25  0.0  0.0      0     0 ?        I<   21:50   0:00 [writeback]
root          26  0.0  0.0      0     0 ?        S    21:50   0:00 [kcompactd0]
root          27  0.0  0.0      0     0 ?        SN   21:50   0:00 [ksmd]
root          28  0.0  0.0      0     0 ?        SN   21:50   0:00 [khugepaged]
root          29  0.0  0.0      0     0 ?        I<   21:50   0:00 [cryptd]
root          30  0.0  0.0      0     0 ?        I<   21:50   0:00 [kintegrityd]
root          31  0.0  0.0      0     0 ?        I<   21:50   0:00 [kblockd]
root          32  0.0  0.0      0     0 ?        I<   21:50   0:00 [blkcg_punt_bio]
root          33  0.0  0.0      0     0 ?        I<   21:50   0:00 [tpm_dev_wq]
root          34  0.0  0.0      0     0 ?        I<   21:50   0:00 [ata_sff]
root          35  0.0  0.0      0     0 ?        T<   21:50   0:00 [kworker/0:0-rcu]
```

```
[elamriilyass@10 ~]$ nice top
```

top - 22:21:00 up 30 min, 1 user, load average: 0.08, 0.02, 0.11

Tasks: total, running, sleeping, stopped, zombie

%Cpu(s): us, sy, ni, id, wa, hi, si, st

MiB Mem : total, free, used, buff/cache

MiB Swap: total, free, used, avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1688	elamrii+	20	0	3548636	290596	97664	S	2.3	14.4	0:32.27	gnome-shell
2453	elamrii+	20	0	776904	54116	42384	S	1.3	2.7	0:05.91	gnome-terminal-
431	root	20	0	0	0	0	S	0.3	0.0	0:00.14	btrfs-transaction
617	systemd+	20	0	16168	5804	4880	S	0.3	0.3	0:05.25	systemd-oomd
2083	elamrii+	20	0	168276	33920	20912	S	0.3	1.7	0:00.92	Xwayland
1	root	20	0	106528	13124	7332	S	0.0	0.7	0:03.82	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_flushwq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_kthread
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
15	root	20	0	0	0	0	S	0.0	0.0	0:00.14	ksoftirqd/0
16	root	20	0	0	0	0	I	0.0	0.0	0:00.21	rcu_preempt
17	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
20	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khavd/0

```
[elamriilyass@10 ~]$ pstree -u
systemd--ModemManager--3*[{ModemManager}]
--NetworkManager--2*[{NetworkManager}]
--VBoxDRMClient--3*[{VBoxDRMClient}]
--VBoxService--8*[{VBoxService}]
--abrt-dbus--2*[{abrt-dbus}]
--3*[{abrt-dump-journ}]
--abrt-d--2*[{abrt-d}]
--accounts-daemon--3*[{accounts-daemon}]
--alsactl
--auditd--[{auditd}]
--avahi-daemon(avahi)--avahi-daemon
--chronyd(chrony)
--colord(colord)--3*[{colord}]
--cupsd
--dbus-broker-lau(dbus)--dbus-broker
--firewalld--[{firewalld}]
--gdm--gdm-session-wor--gdm-wayland-ses(elamriilyass)--gnome-session-b--3*[{gnome-session-b}]
--2*[{gdm-session-wor]}--2*[{gdm-wayland-ses}]
--2*[{gdm}]
--gnome-keyring-d(elamriilyass)--3*[{gnome-keyring-d}]
--gssproxy--5*[{gssproxy}]
--low-memory-moni--2*[{low-memory-moni}]
--mcelog
--packagekitd--2*[{packagekitd}]
--pcscd--6*[{pcscd}]
--polkitd(polkitd)--5*[{polkitd}]
--power-profiles--2*[{power-profiles-}]
--rftd-daemon(rftd)--2*[{rftd-daemon}]
```

```
[elamriilyass@10 ~]$ ps | wc -l  
4  
[elamriilyass@10 ~]$
```

*Thank  
You*

4

**ATTENTION**

