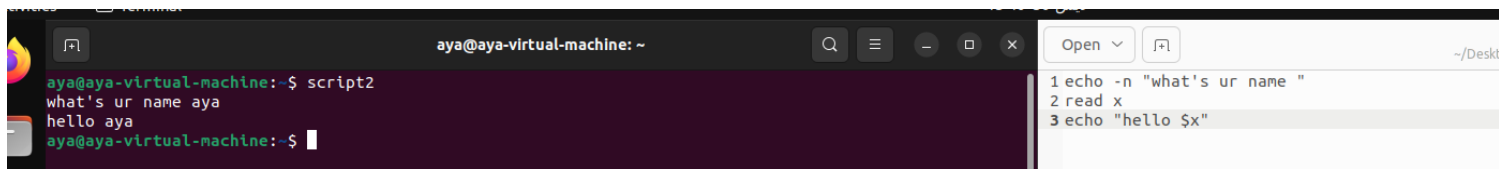


1. Create a script that asks for user name then send a greeting to him.

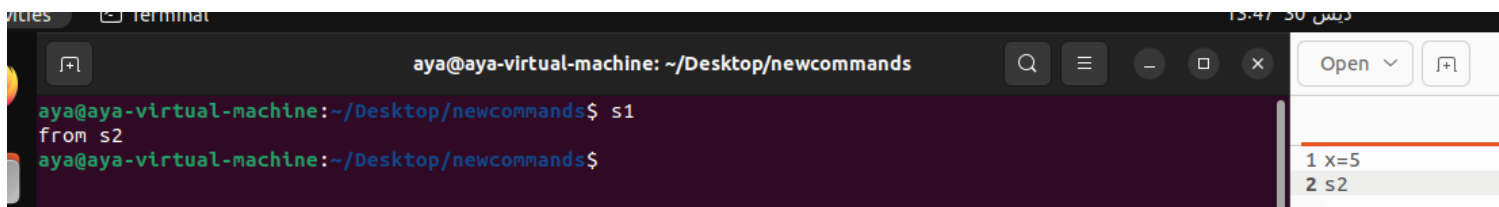


```
aya@aya-virtual-machine: ~  
aya@aya-virtual-machine:~$ script2  
what's ur name aya  
hello aya  
aya@aya-virtual-machine:~$
```

```
1 echo -n "what's ur name "  
2 read x  
3 echo "hello $x"
```

2. Create a script called s1 that calls another script s2 where:

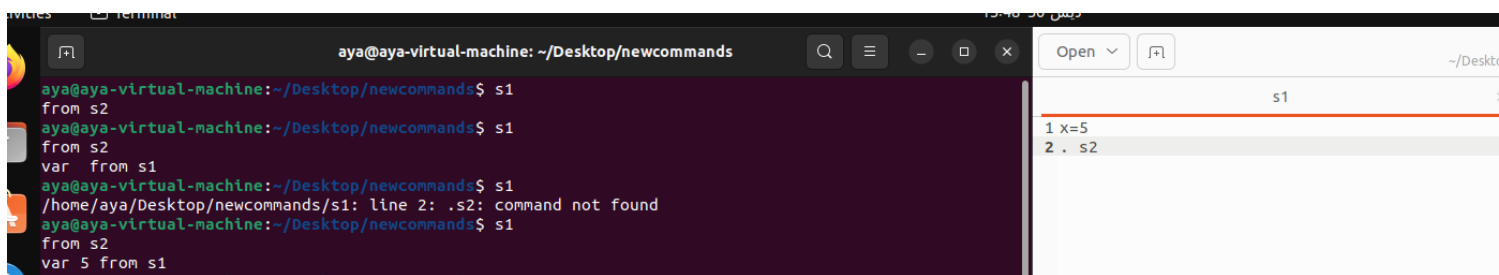
a. In s1 there is a variable called x, it's value 5



```
aya@aya-virtual-machine: ~/Desktop/newcommands  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
aya@aya-virtual-machine:~/Desktop/newcommands$
```

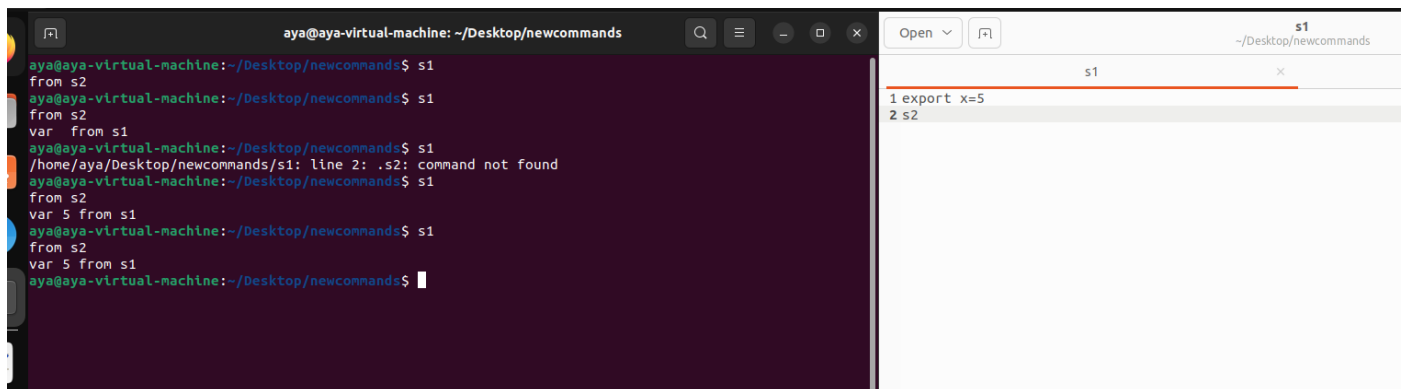
```
1 x=5  
2 s2
```

b. Try to print the value of x in s2 by two different ways.



```
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
var from s1  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
/home/aya/Desktop/newcommands/s1: line 2: .s2: command not found  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
var 5 from s1
```

```
s1  
1 x=5  
2 . s2
```

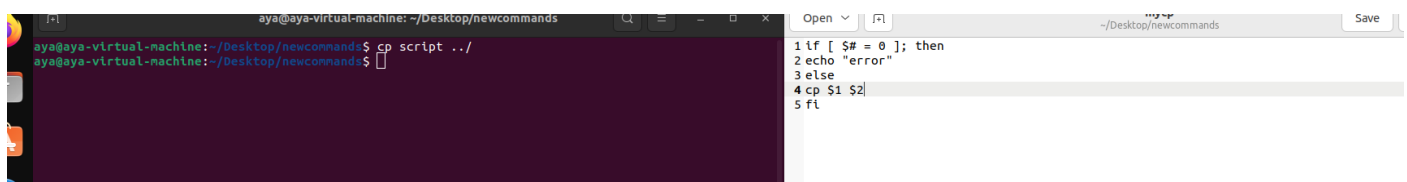


```
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
var from s1  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
/home/aya/Desktop/newcommands/s1: line 2: .s2: command not found  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
var 5 from s1  
aya@aya-virtual-machine:~/Desktop/newcommands$ s1  
from s2  
var 5 from s1  
aya@aya-virtual-machine:~/Desktop/newcommands$
```

```
s1  
1 export x=5  
2 s2
```

3. Create a script called mycp where:

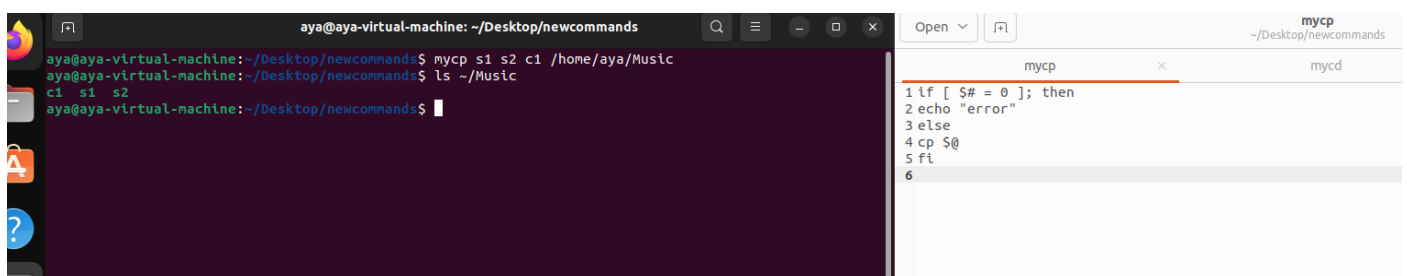
a. It copies a file to another



```
aya@aya-virtual-machine:~/Desktop/newcommands$ cp script ../  
aya@aya-virtual-machine:~/Desktop/newcommands$
```

```
1 if [ $# = 0 ]; then  
2 echo "error"  
3 else  
4 cp $1 $2  
5 fi
```

b. It copies multiple files to a directory.

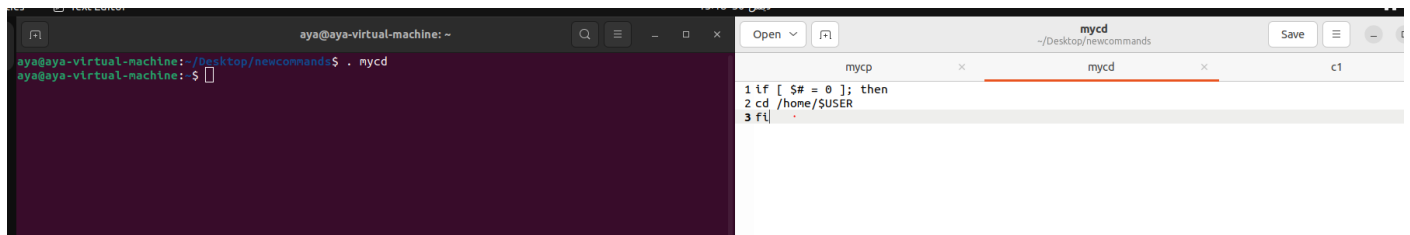


```
aya@aya-virtual-machine:~/Desktop/newcommands$ mycp s1 s2 c1 /home/aya/Music  
aya@aya-virtual-machine:~/Desktop/newcommands$ ls ~/Music  
c1 s1 s2  
aya@aya-virtual-machine:~/Desktop/newcommands$
```

```
mycp  
1 if [ $# = 0 ]; then  
2 echo "error"  
3 else  
4 cp $@  
5 fi  
6
```

4. Create a script called mycd where:

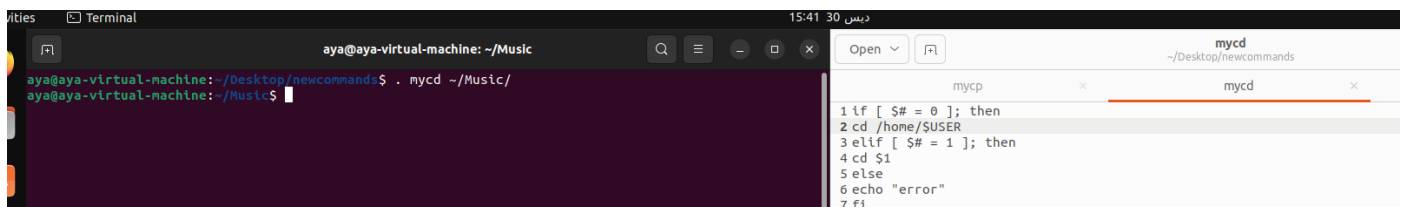
a. It changed directory to the user home directory, if it is called without arguments.



The screenshot shows a terminal window on the left and a code editor on the right. The terminal shows the user running `. mycd` in the directory `~/Desktop/newcommands`. The code editor shows the initial script for `mycd`:

```
1 if [ $# = 0 ]; then
2 cd /home/$USER
3 fi
```

b. Otherwise, it change directory to the given directory.



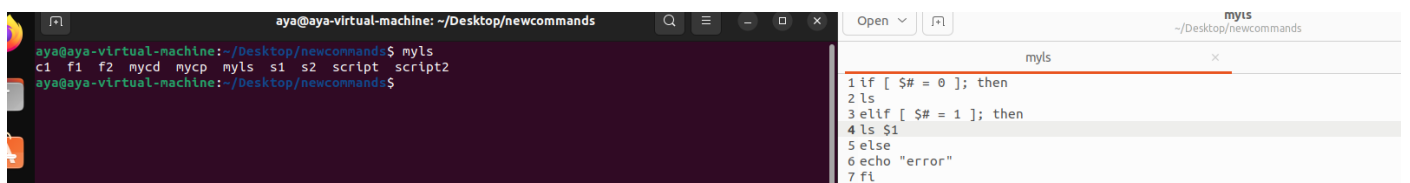
The screenshot shows a terminal window on the left and a code editor on the right. The terminal shows the user running `. mycd ~/Music/` in the directory `~/Desktop/newcommands`. The code editor shows the updated script for `mycd`:

```
1 if [ $# = 0 ]; then
2 cd /home/$USER
3 elif [ $# = 1 ]; then
4 cd $1
5 else
6 echo "error"
7 fi
```

5. Create a script called myls where:

a. It lists the current directory, if it is called without arguments.

b. Otherwise, it lists the given directory.



The screenshot shows a terminal window on the left and a code editor on the right. The terminal shows the user running `mysls` in the directory `~/Desktop/newcommands`. The code editor shows the initial script for `mysls`:

```
1 if [ $# = 0 ]; then
2 ls
3 elif [ $# = 1 ]; then
4 ls $1
5 else
6 echo "error"
7 fi
```

6. Enhance the above script to support the following options individually:

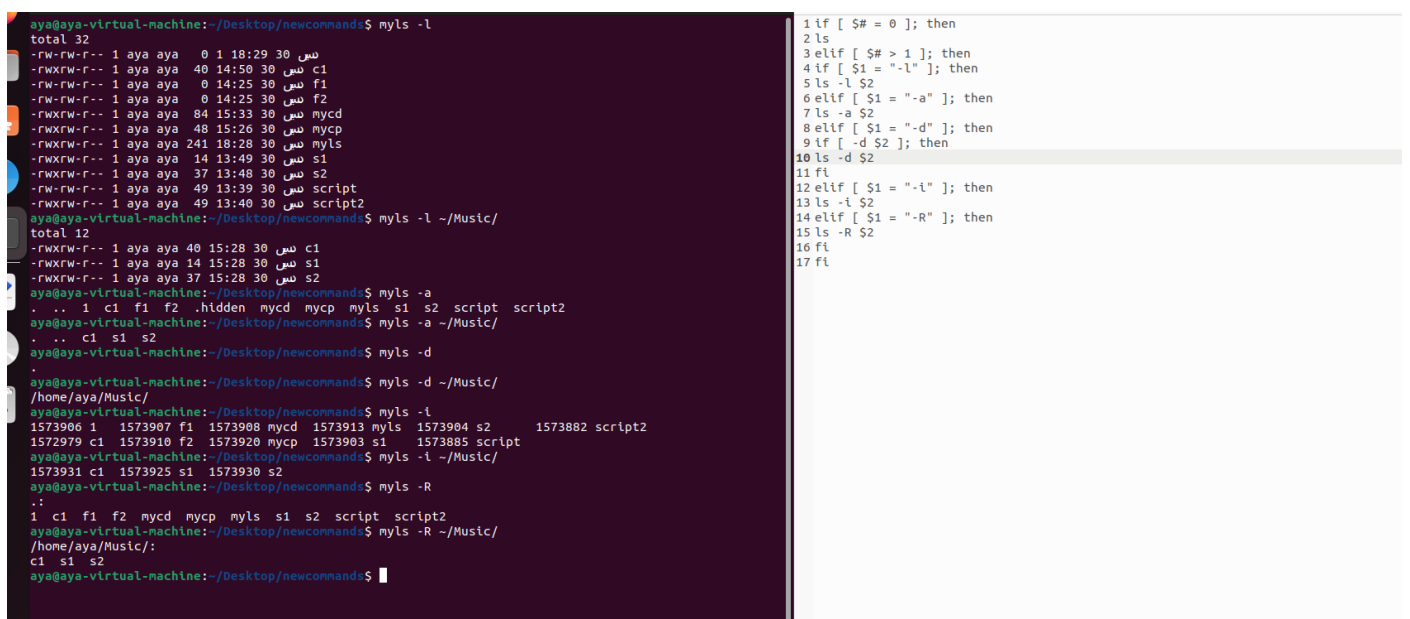
a. `-l`: list in long format

b. `-a`: list all entries including the hiding files.

c. `-d`: if an argument is a directory, list only its name

d. `-i`: print inode number

e. `-R`: recursively list subdirectories

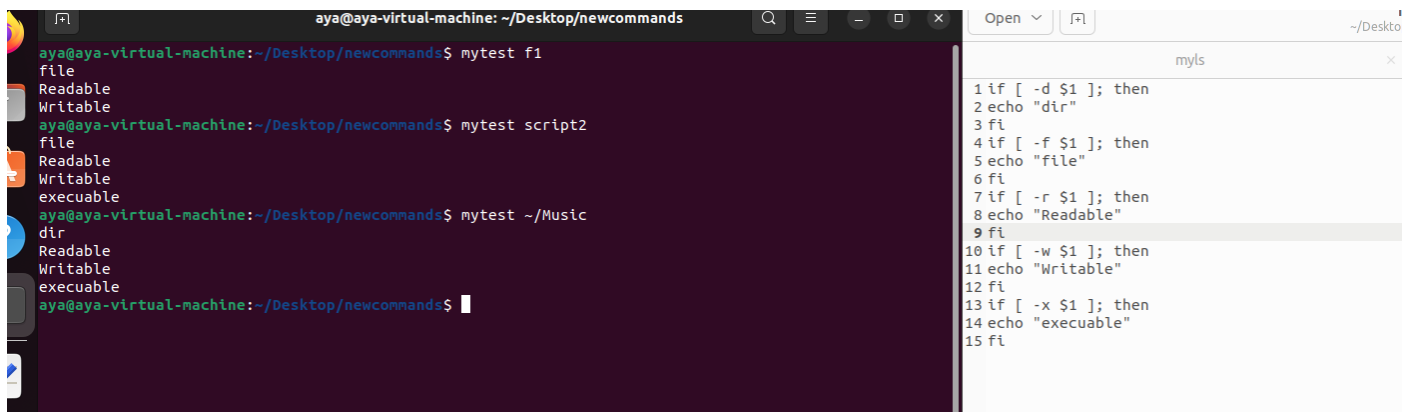


The screenshot shows a terminal window on the left and a code editor on the right. The terminal shows the user running various commands to test the enhanced `mysls` script. The code editor shows the enhanced script for `mysls`:

```
1 if [ $# = 0 ]; then
2 ls
3 elif [ $# > 1 ]; then
4 if [ $1 = "-l" ]; then
5 ls -l $2
6 elif [ $1 = "-a" ]; then
7 ls -a $2
8 elif [ $1 = "-d" ]; then
9 if [ -d $2 ]; then
10 ls -d $2
11 fi
12 elif [ $1 = "-l" ]; then
13 ls -l $2
14 elif [ $1 = "-R" ]; then
15 ls -R $2
16 fi
17 fi
```

7. Create a script called mytest where:

- It check the type of the given argument (file/directory)
- It check the permissions of the given argument (read/write/execute)

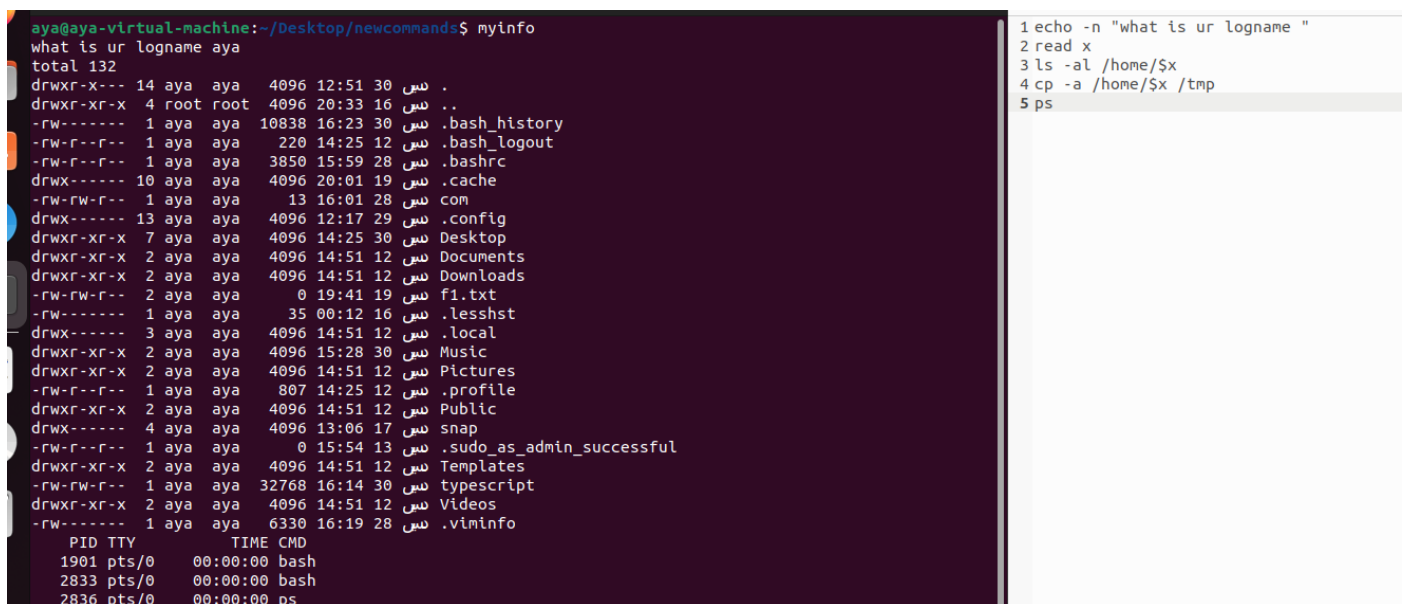


```
aya@aya-virtual-machine: ~/Desktop/newcommands
aya@aya-virtual-machine:~/Desktop/newcommands$ mytest f1
file
Readable
Writable
aya@aya-virtual-machine:~/Desktop/newcommands$ mytest script2
file
Readable
Writable
executable
aya@aya-virtual-machine:~/Desktop/newcommands$ mytest ~/Music
dir
Readable
Writable
executable
aya@aya-virtual-machine:~/Desktop/newcommands$
```

```
1 if [ -d $1 ]; then
2 echo "dir"
3 fi
4 if [ -f $1 ]; then
5 echo "file"
6 fi
7 if [ -r $1 ]; then
8 echo "Readable"
9 fi
10 if [ -w $1 ]; then
11 echo "Writable"
12 fi
13 if [ -x $1 ]; then
14 echo "executable"
15 fi
```

8. Create a script called myinfo where:

- It asks the user about his/her logname.
- It print full info about files and directories in his/her home directory
- Copy his/her files and directories as much as you can in /tmp directory.
- Gets his current processes status



```
aya@aya-virtual-machine:~/Desktop/newcommands$ myinfo
what is ur logname aya
total 132
drwxr-x--- 14 aya aya 4096 12:51 30 .
drwxr-xr-x  4 root root 4096 20:33 16 ..
-rw----- 1 aya aya 10838 16:23 30 .bash_history
-rw-r--r--  1 aya aya 220 14:25 12 .bash_logout
-rw-r--r--  1 aya aya 3850 15:59 28 .bashrc
drwx----- 10 aya aya 4096 20:01 19 .cache
-rw-rw-r--  1 aya aya 13 16:01 28 .com
drwx----- 13 aya aya 4096 12:17 29 .config
drwxr-xr-x  7 aya aya 4096 14:25 30 .Desktop
drwxr-xr-x  2 aya aya 4096 14:51 12 .Documents
drwxr-xr-x  2 aya aya 4096 14:51 12 .Downloads
-rw-rw-r--  2 aya aya 0 19:41 19 .f1.txt
-rw-----  1 aya aya 35 00:12 16 .lessht
drwx-----  3 aya aya 4096 14:51 12 .local
drwxr-xr-x  2 aya aya 4096 15:28 30 .Music
drwxr-xr-x  2 aya aya 4096 14:51 12 .Pictures
-rw-r--r--  1 aya aya 807 14:25 12 .profile
drwxr-xr-x  2 aya aya 4096 14:51 12 .Public
drwx-----  4 aya aya 4096 13:06 17 .snap
-rw-r--r--  1 aya aya 0 15:54 13 .sudo_as_admin_successful
drwxr-xr-x  2 aya aya 4096 14:51 12 .Templates
-rw-rw-r--  1 aya aya 32768 16:14 30 .typescript
drwxr-xr-x  2 aya aya 4096 14:51 12 .Videos
-rw-----  1 aya aya 6330 16:19 28 .viminfo

PID TTY TIME CMD
1901 pts/0 00:00:00 bash
2833 pts/0 00:00:00 bash
2836 pts/0 00:00:00 ps
```

```
1 echo -n "what is ur logname "
2 read x
3 ls -al /home/$x
4 cp -a /home/$x /tmp
5 ps
```