Shell Script – Day 2

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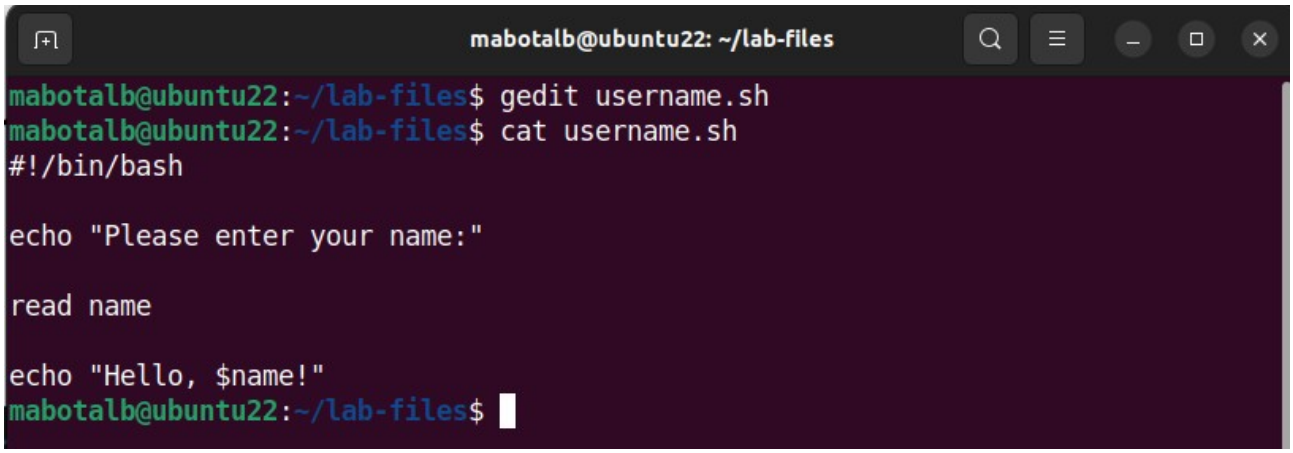
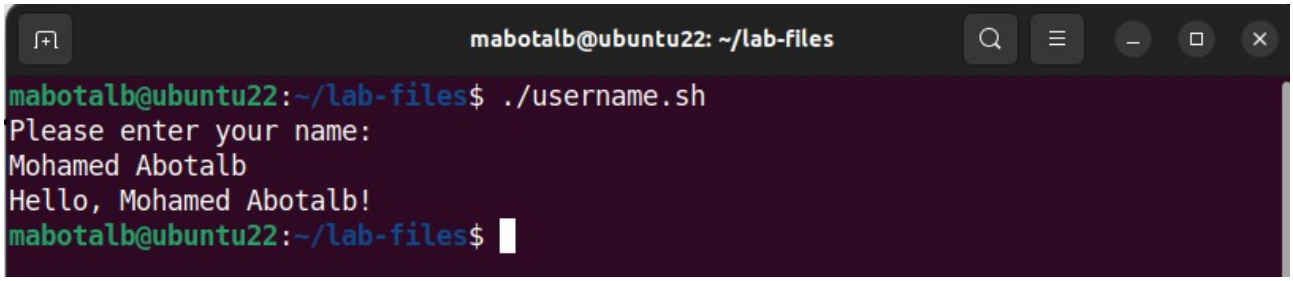
1. Create a script that asks for user name then send a greeting to him.

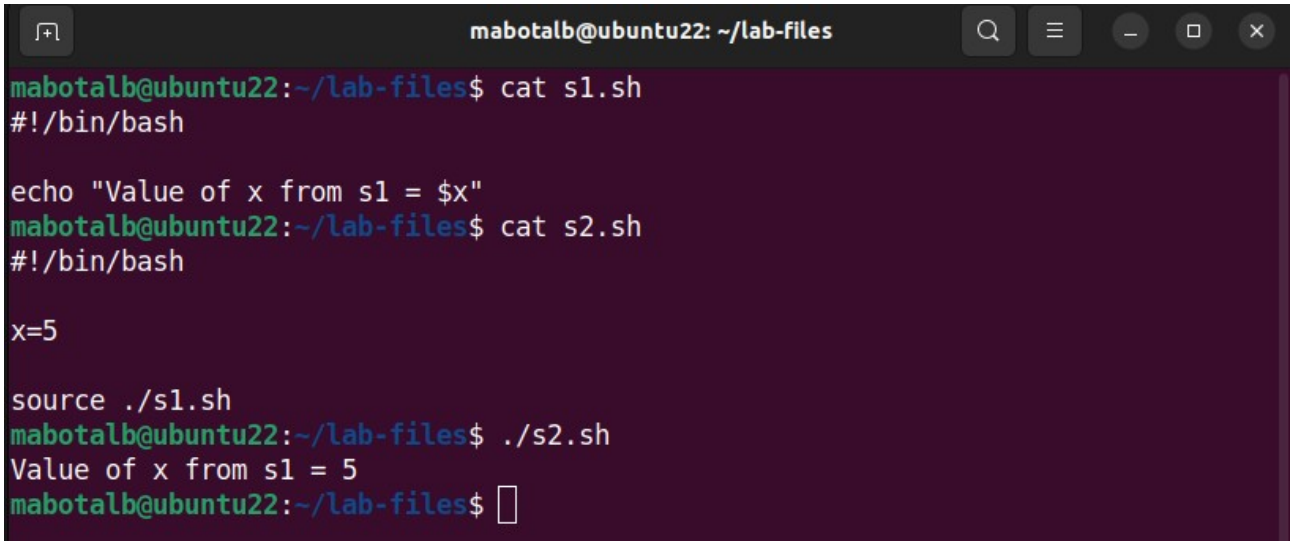


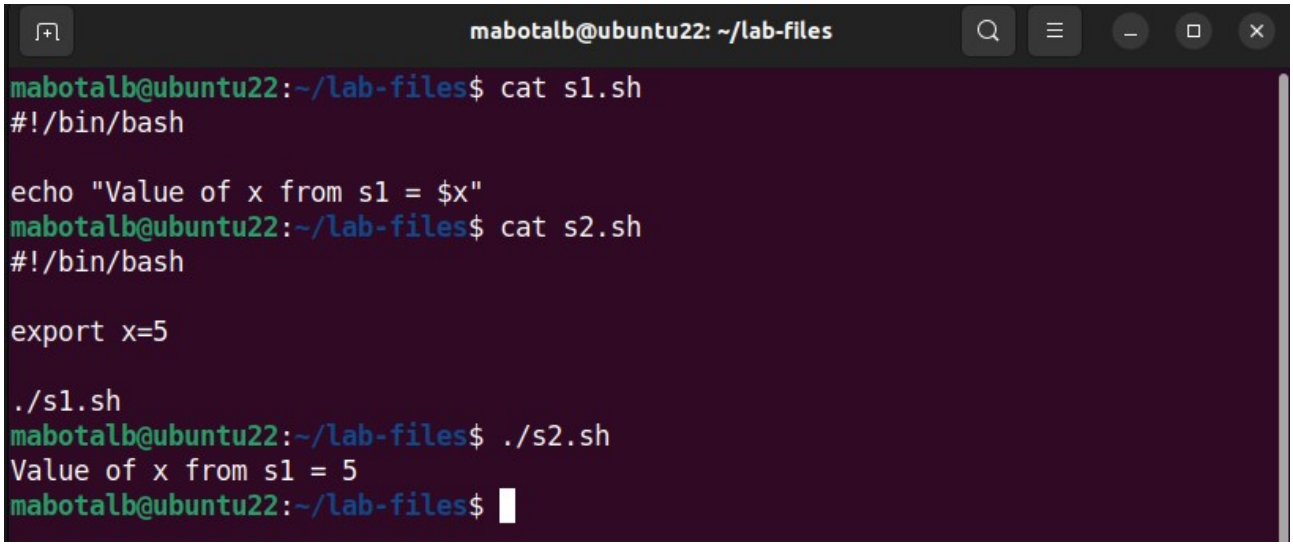


2. Create a script called s1 that calls another script s2 where:

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

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

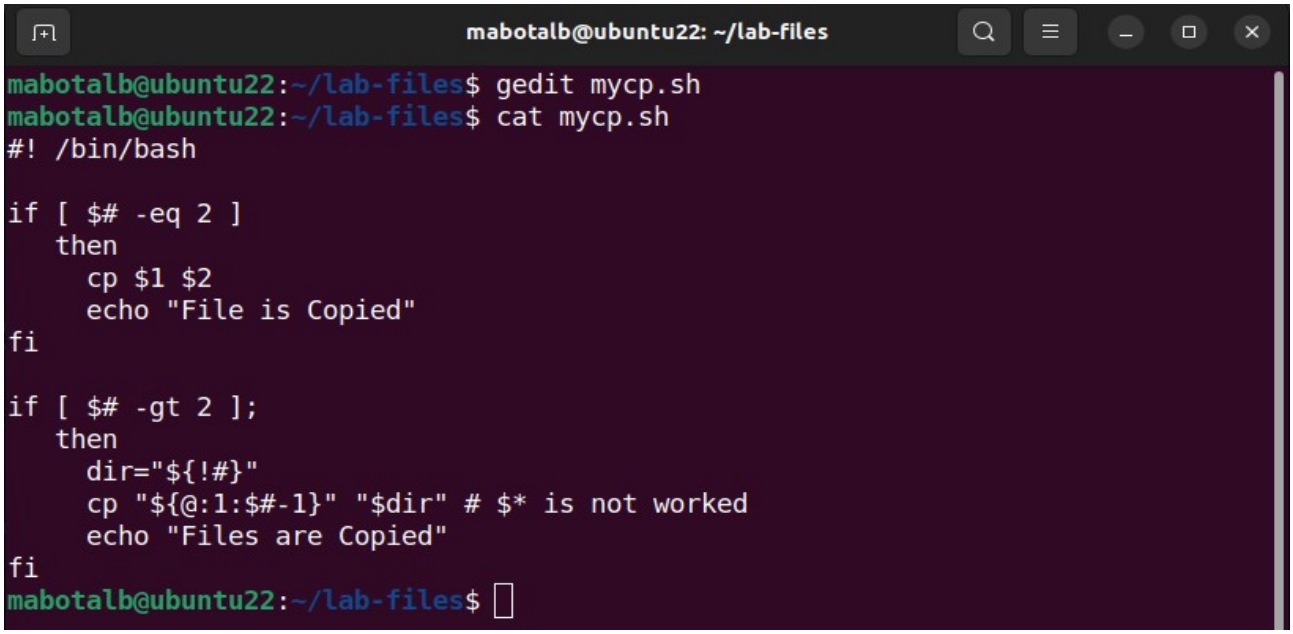


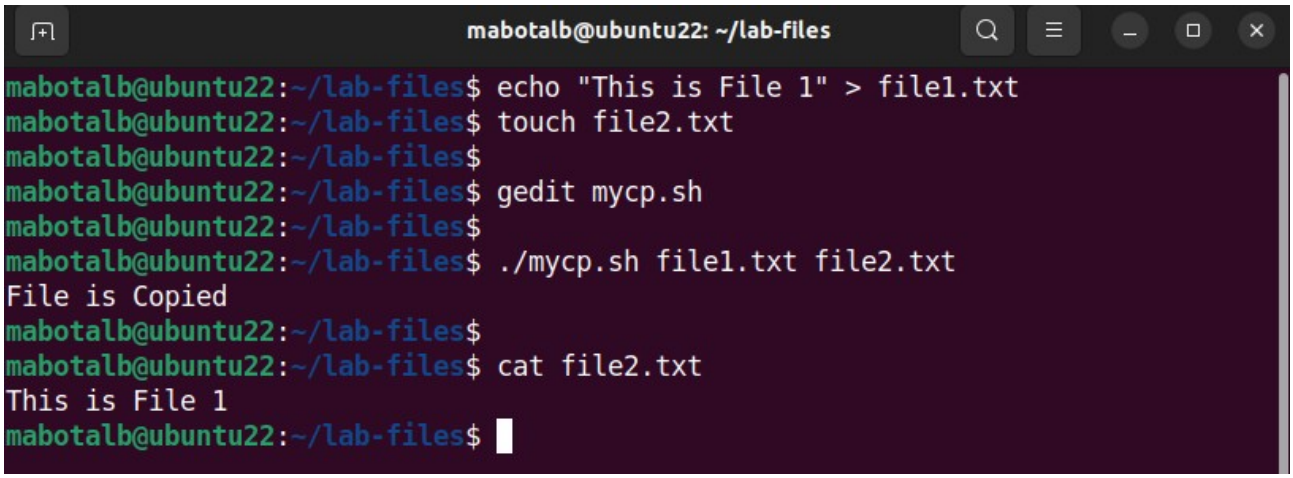


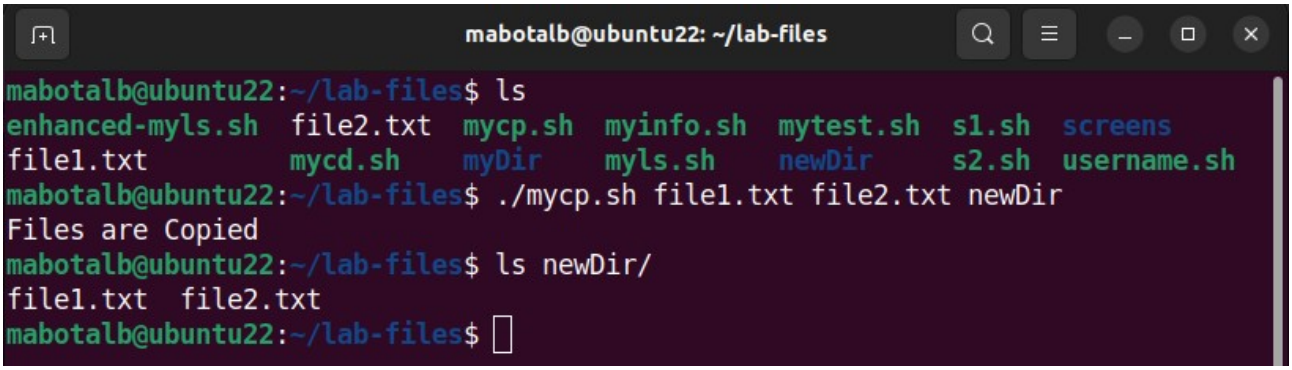
3. Create a script called mycp where:

a. It copies a file to another

b. It copies multiple files to a directory.



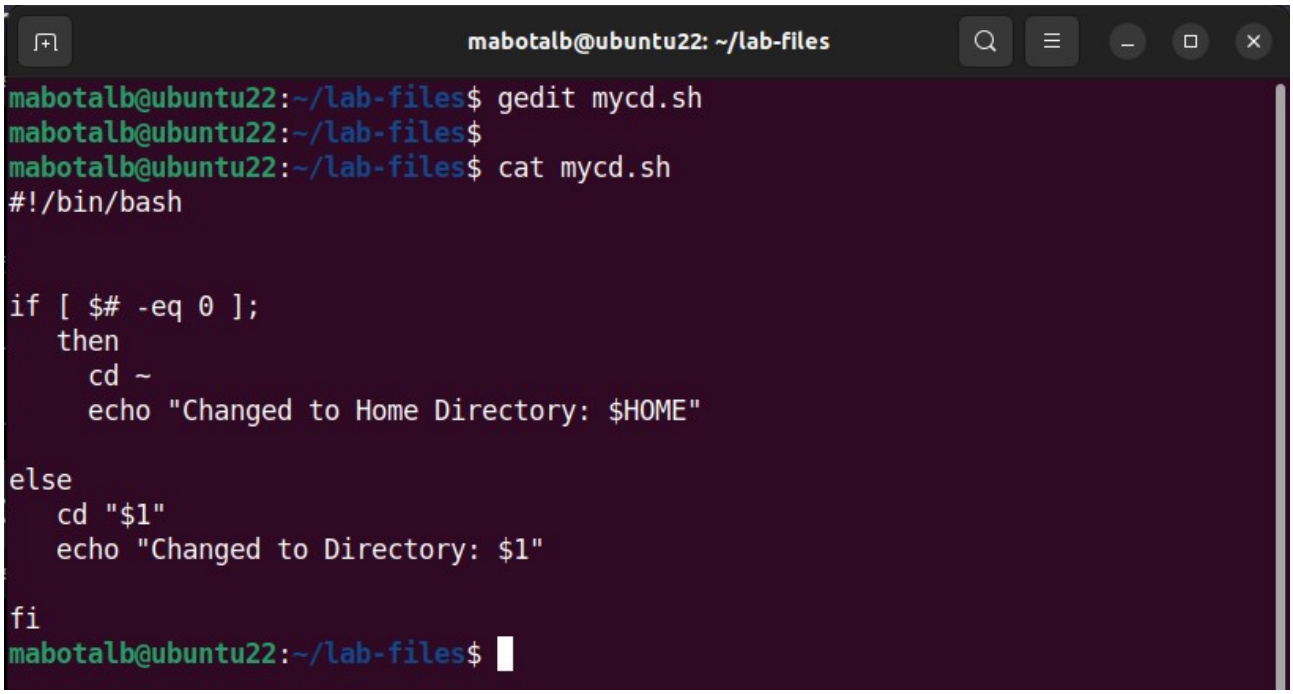




4. Create a script called mycd where:

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

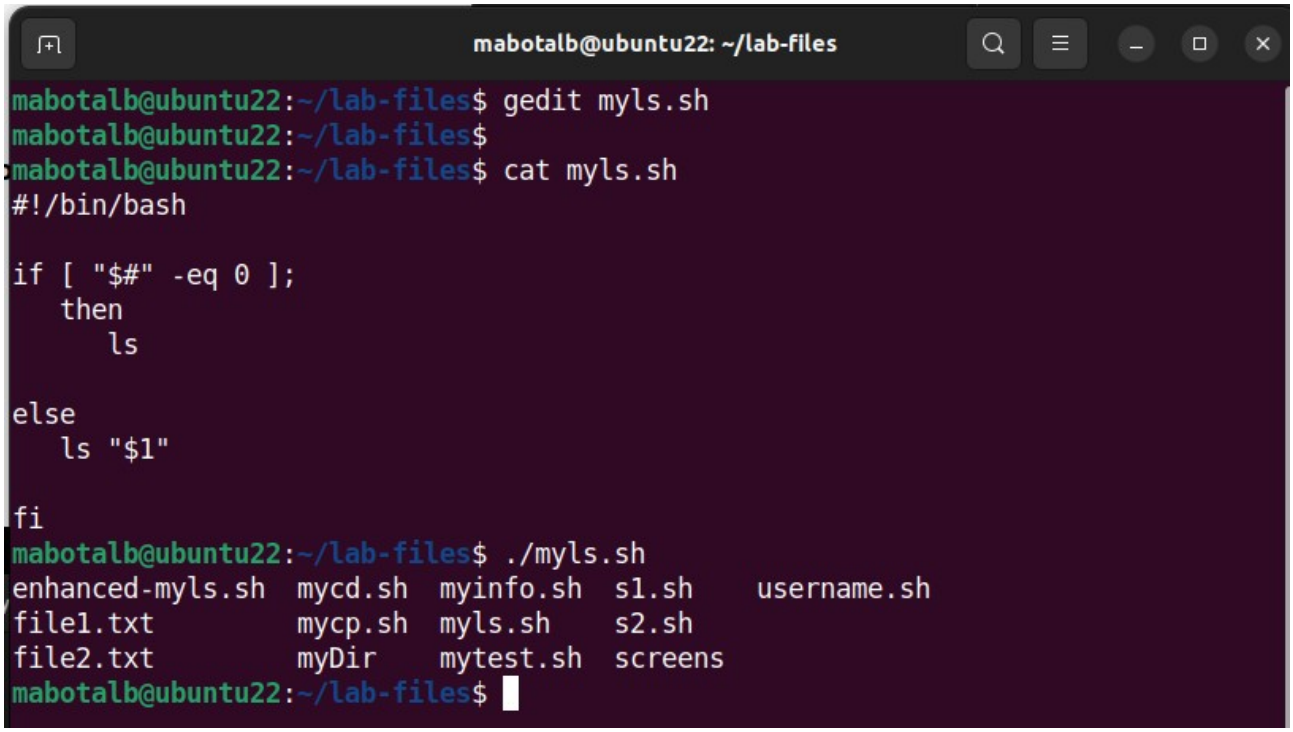
b. Otherwise, it change directory to the given directory.



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.



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

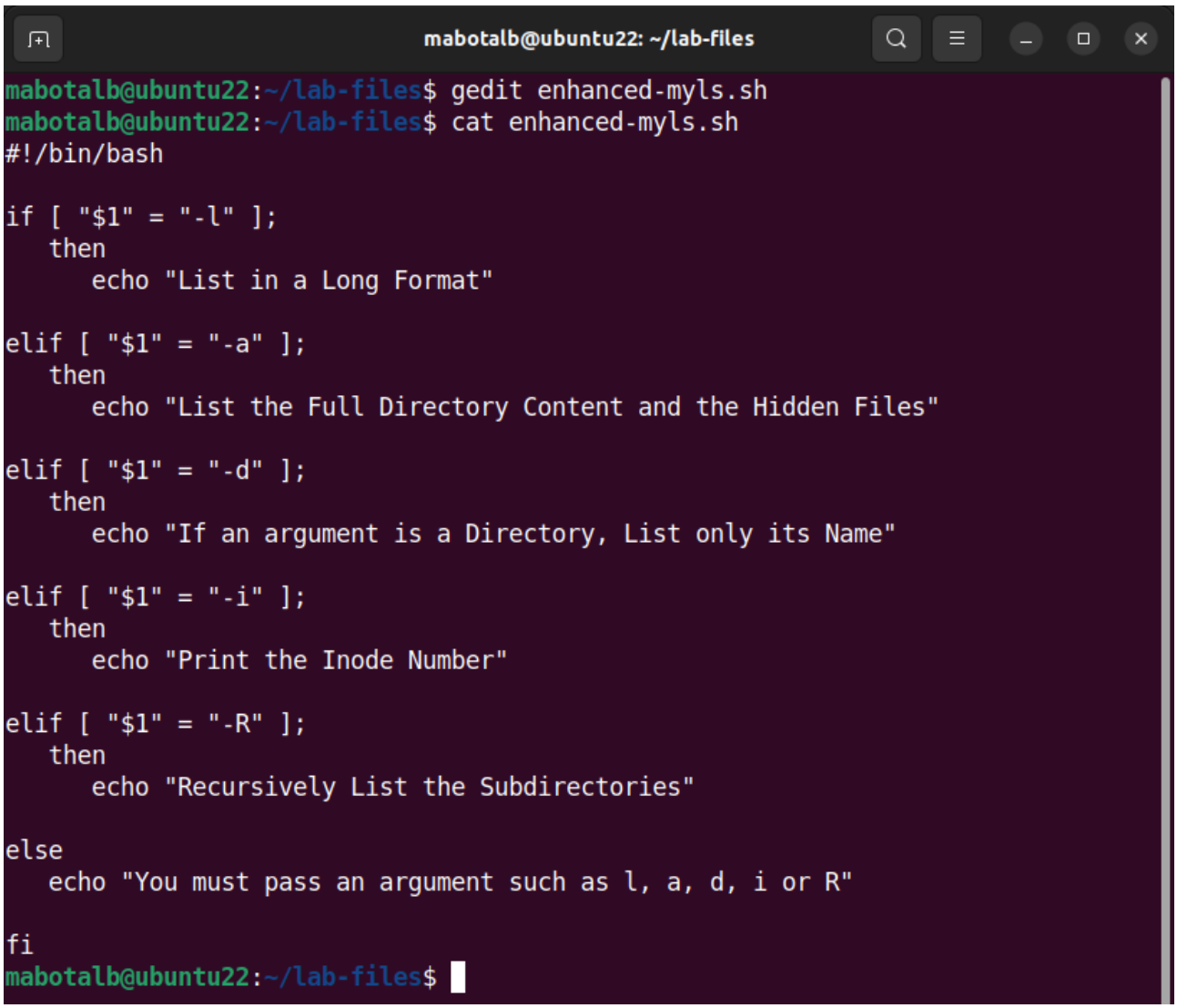
a. –l: list in long format

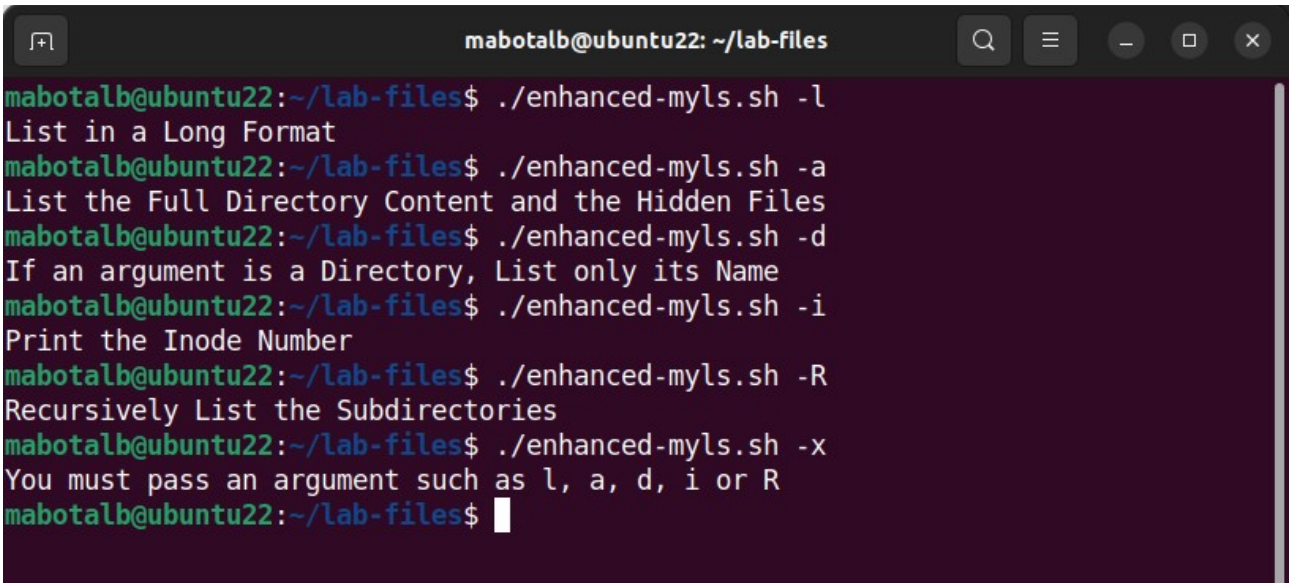
b. –a: list all entries including the hiding files.

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

d. –i: print inode number

e. –R: recursively list subdirectories

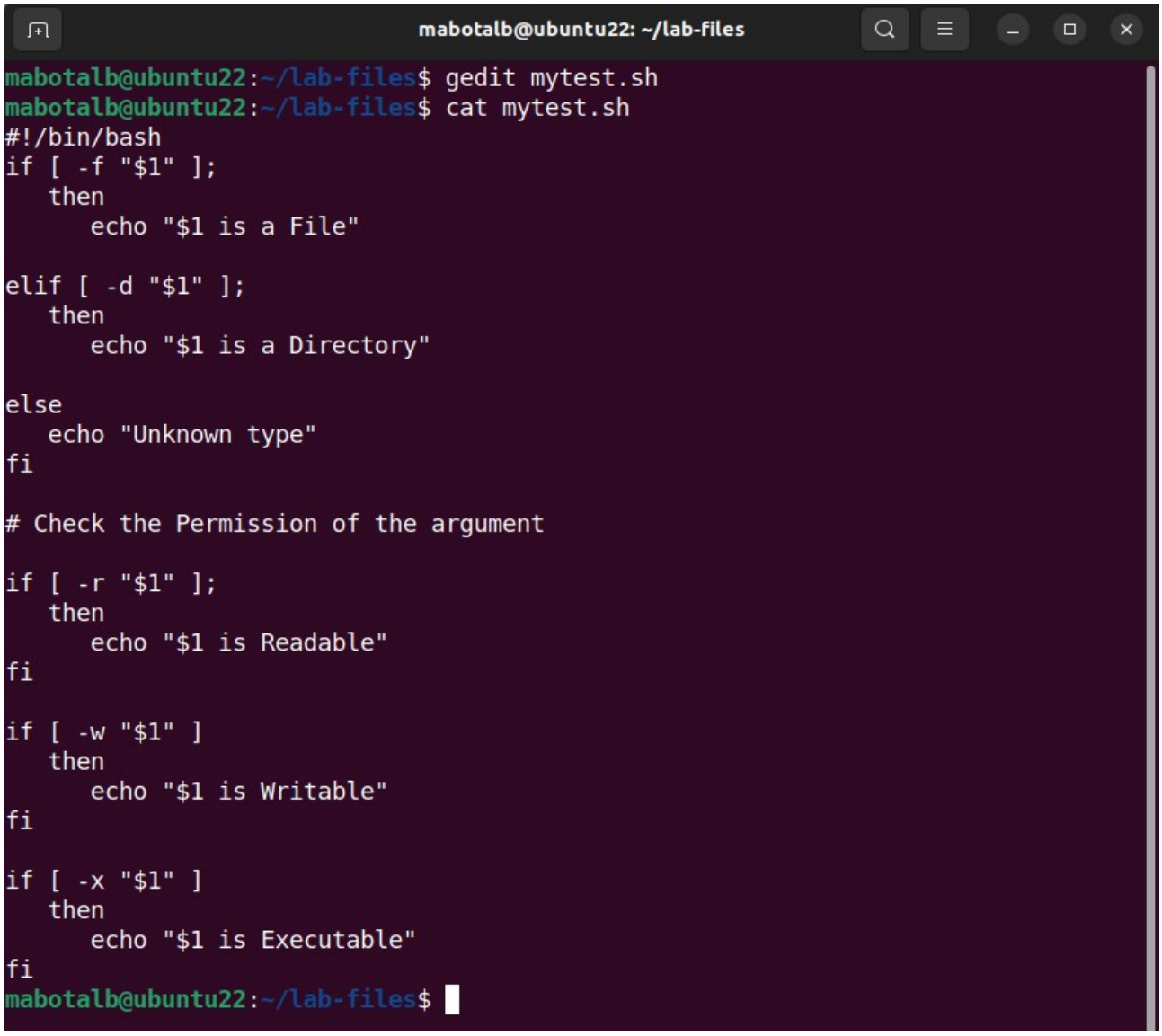

mabotalb@ubuntu22: ~/lab-files
mabotalb@ubuntu22:~/lab-files$ gedit enhanced-myls.sh
mabotalb@ubuntu22:~/lab-files$ cat enhanced-myls.sh
#!/bin/bash
if ["$1" = "-l"];
then
echo "List in a Long Format"
elif ["$1" = "-a"];
then
echo "List the Full Directory Content and the Hidden Files"
elif ["$1" = "-d"];
then
echo "If an argument is a Directory, List only its Name"
elif ["$1" = "-i"];
then
echo "Print the Inode Number"
elif ["$1" = "-R"];
then
echo "Recursively List the Subdirectories"
else
echo "You must pass an argument such as l, a, d, i or R"
fi
mabotalb@ubuntu22:~/lab-files$

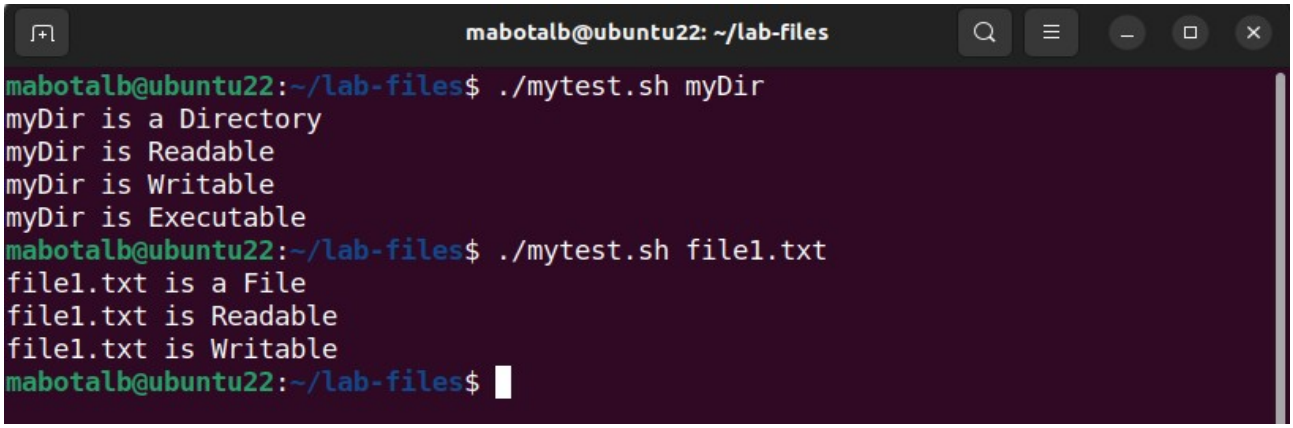

mabotalb@ubuntu22: ~/lab-files
mabotalb@ubuntu22:~/lab-files$ ./enhanced-myls.sh -l
List in a Long Format
mabotalb@ubuntu22:~/lab-files$ ./enhanced-myls.sh -a
List the Full Directory Content and the Hidden Files
mabotalb@ubuntu22:~/lab-files$ ./enhanced-myls.sh -d
If an argument is a Directory, List only its Name
mabotalb@ubuntu22:~/lab-files$ ./enhanced-myls.sh -i
Print the Inode Number
mabotalb@ubuntu22:~/lab-files$ ./enhanced-myls.sh -R
Recursively List the Subdirectories
mabotalb@ubuntu22:~/lab-files$ ./enhanced-myls.sh -x
You must pass an argument such as l, a, d, i or R
mabotalb@ubuntu22:~/lab-files$

7. Create a script called mytest where:

a. It check the type of the given argument (file/directory)

b. It check the permissions of the given argument (read/write/execute)





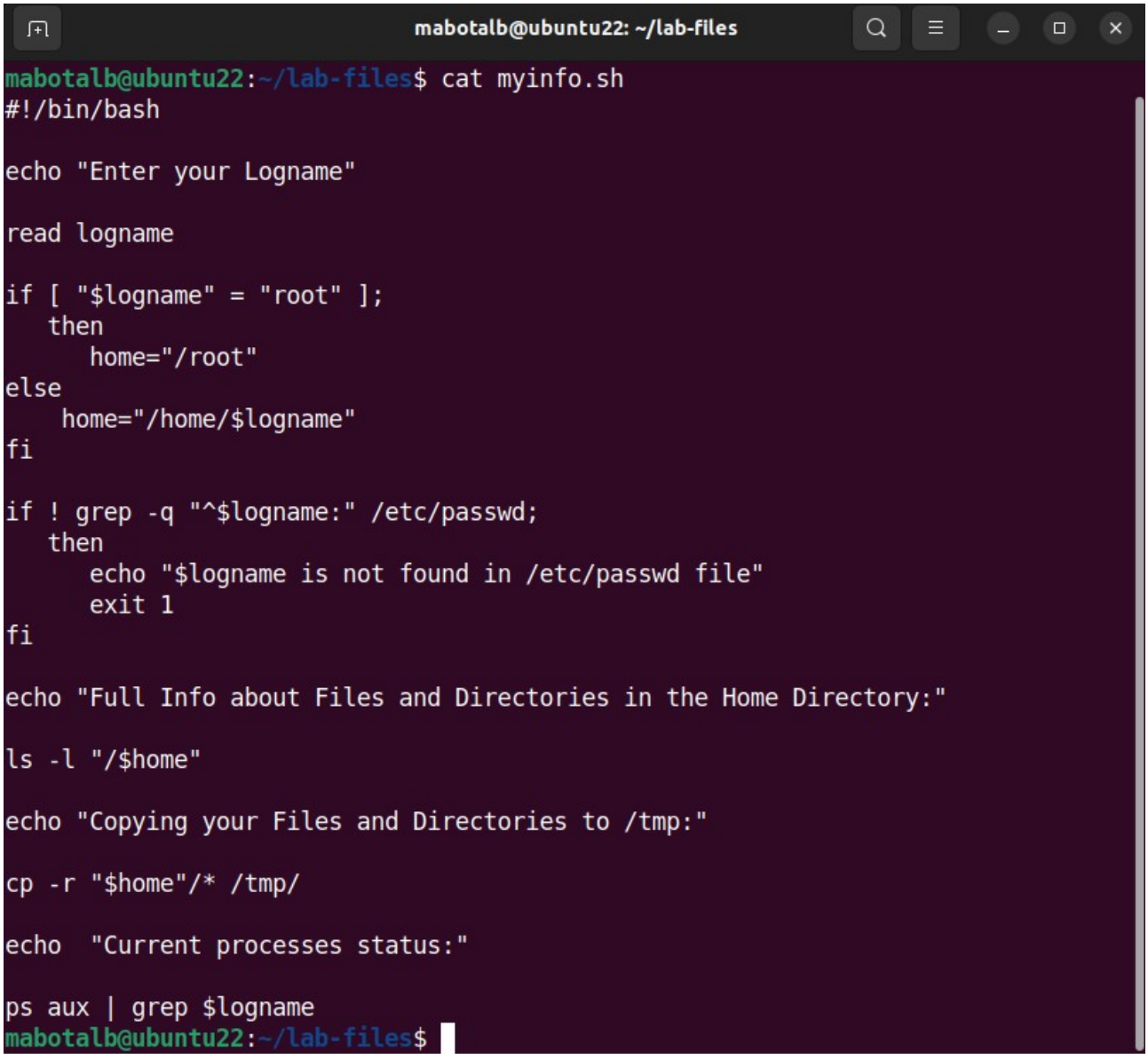
8. Create a script called myinfo where:

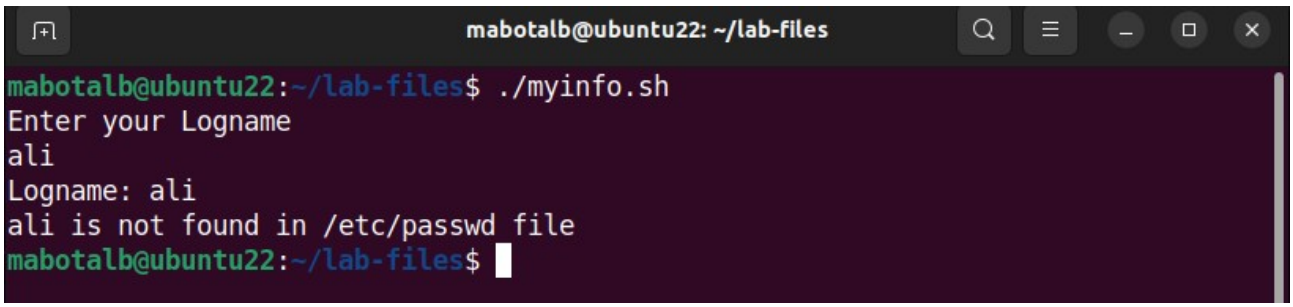
a. It asks the user about his/her logname.

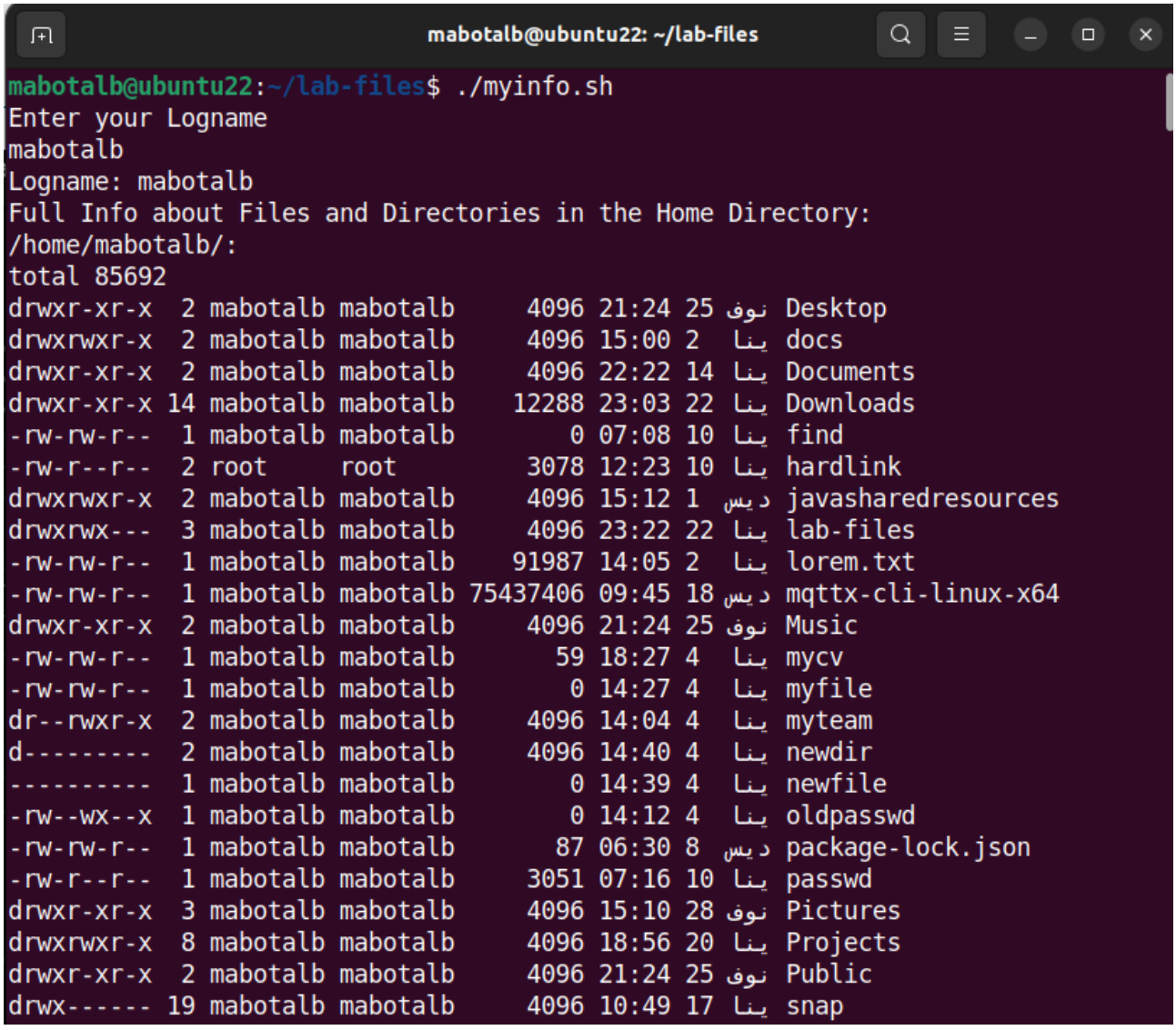
b. It print full info about files and directories in his/her home directory

c. Copy his/her files and directories as much as you can in /tmp directory.

d. Gets his current processes status.




mabotalb@ubuntu22: ~/lab-files
mabotalb@ubuntu22:~/lab-files$ ./myinfo.sh
Enter your Logname
ali
Logname: ali
ali is not found in /etc/passwd file
mabotalb@ubuntu22:~/lab-files$


mabotalb@ubuntu22: ~/lab-files
mabotalb@ubuntu22:~/lab-files$ ./myinfo.sh
Enter your Logname
mabotalb
Logname: mabotalb
Full Info about Files and Directories in the Home Directory:
/home/mabotalb/:
total 85692
drwxr-xr-x 2 mabotalb mabotalb   4096 21:24 25 نوف Desktop
drwxrwxr-x 2 mabotalb mabotalb   4096 15:00 2 ينا docs
drwxr-xr-x 2 mabotalb mabotalb   4096 22:22 14 ينا Documents
drwxr-xr-x 14 mabotalb mabotalb   12288 23:03 22 ينا Downloads
-rw-rw-r-- 1 mabotalb mabotalb   0 07:08 10 ينا find
-rw-r--r-- 2 root   root   3078 12:23 10 ينا hardlink
drwxrwxr-x 2 mabotalb mabotalb   4096 15:12 1 ديس javasharedresources
drwxrwx--- 3 mabotalb mabotalb   4096 23:22 22 ينا lab-files
-rw-rw-r-- 1 mabotalb mabotalb   91987 14:05 2 ينا lorem.txt
-rw-rw-r-- 1 mabotalb mabotalb 75437406 09:45 18 ديس mqttx-cli-linux-x64
drwxr-xr-x 2 mabotalb mabotalb   4096 21:24 25 نوف Music
-rw-rw-r-- 1 mabotalb mabotalb   59 18:27 4 ينا mycv
-rw-rw-r-- 1 mabotalb mabotalb   0 14:27 4 ينا myfile
dr--rwxr-x 2 mabotalb mabotalb   4096 14:04 4 ينا myteam
d--------- 2 mabotalb mabotalb   4096 14:40 4 ينا newdir
---------- 1 mabotalb mabotalb   0 14:39 4 ينا newfile
-rw--wx--x 1 mabotalb mabotalb   0 14:12 4 ينا oldpasswd
-rw-rw-r-- 1 mabotalb mabotalb   87 06:30 8 ديس package-lock.json
-rw-r--r-- 1 mabotalb mabotalb   3051 07:16 10 ينا passwd
drwxr-xr-x 3 mabotalb mabotalb   4096 15:10 28 نوف Pictures
drwxrwxr-x 8 mabotalb mabotalb   4096 18:56 20 ينا Projects
drwxr-xr-x 2 mabotalb mabotalb   4096 21:24 25 نوف Public
drwx------ 19 mabotalb mabotalb   4096 10:49 17 ينا snap