

Basic tools refreshers: Homework for lecture 2

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1. `mkdir lesson_1`
2. `mv tic lesson_1/tic`
3. `mkdir lesson_2`
`cd lesson_2`
4. `touch file1.1.1`
`echo -e "Hello\nHello\nHello" >> file 1.1.1`
`echo -e "world\nworld" >> file 1.1.1`
`echo -e "*" >> file 1.1.1`
5. `cat file1.1.1`
`less file1.1.1`
6. Prints all subdirectories from root.
7. `tree /etc > tree_etc`
- 8.
- 9.
10. `wget http://download.geonames.org/export/zip/FR.zip`
`unzip FR.zip -d ./`
`rm FR.zip`
11. `less FR.txt`
This file is a table.
12. `grep "01000" FR.txt`
The cities are Bourg-en-Bresse and Saint-Denis-lès-Bourg.
13. (Not to be done)
14. `mv FR.txt french_zipcodes.txt`

15. `ls french.zipcodes.txt -l`
The user and the group have read and write rights, whereas the other users only have read right.
16. (a) `chmod u+rw french.zipcodes.txt`
(b) `chmod u-x french.zipcodes.txt`
(c) `chmod u-w french.zipcodes.txt`
17. `chmod u+rw french.zipcodes.txt`
`chmod u-w french.zipcodes.txt`
18. Because the rights is "- r - - r w - r - -", group users already have read and write (*i.e.* edit). Now to prevent them from deleting this file, we run the following commands:
`cd ..`
`ls -l` (to check the current rights for `lesson_2`, which returns `drwxrwxr-x`)
`chmod g-w lesson_2/` (and now the rights of `lesson_2` are `drwxr-xr-x`)
In order to allow group users to delete `french.zipcodes.txt`, we would have to run `chmod g+w lesson_2/`.
19. `HELLO="Hello, World !"`
`echo $HELLO`
20. `for entry in ../lesson_1/*`
`do`
`echo "$entry"`
`done >> LONG.FILES.LIST`
21. `touch user_reply`
`read reply`
`echo $reply && user_reply`
22. `touch hello.sh`
`nano hello.sh`
`read user_name`
`echo "Hello $user_name !"`
`ctrl+X`
`[y]`
`[Enter]`
`chmod a+x hello.sh`
`./hello.sh`
`Joris`
(prints Hello Joris !)
23. Let us first create a file in which to print "Error message":
`touch err_mess`
Now we create a shell file and make it executable:
`touch q23.sh`

```

chmod a+x q23.sh
nano q23.sh
echo "Normal message"
echo "Error message" && $1
Ctrl + X
y
Enter
./q23.sh err_mess
As expected, "Normal message" is printed in the terminal and "Error
message" is written to the file err_mess.

```

24.

```
mv $1 $2
mv $2 "$3/$2"
echo "Nb of arguments is $#"
```

```
echo "Arguments from input are $1 $2 $3"
```
25.

```
for i in $(seq 50 99)
do
    touch file$i
done
```
26.

```
rm file[5-9][0-9]
```
27. (a)

```
for i in $(seq 1 $1)
do
    touch "$3"/"$2$i"
done
```

(b)

```
for i in $(seq 1 $1)
do
    mv "$2/$3$i" "$2/$3$i.txt"
done
```

(c)

```
for name in $(ls .txt)
do
    mv "$1$name" "$2$name"
done
```