

UFUK CEM BİRBİRİ

Exercises

1- mkdir lesson_1

2-

The 'tic', 'tac' and 'toe' files was in my Desktop. So I create a new directory named 'M1_basic_tools' and move tic-tac-toe inside it.

```
mv tic M1_basic_tools/lesson_1
```

```
mv tac M1_basic_tools/lesson_1
```

```
mv toe M1_basic_tools/lesson_1
```

3-

```
cd M1_basic_tools
```

```
mkdir lesson_2
```

```
cd lesson_2
```

4-

```
touch file.1.1.1
```

```
for i in 1 2 3
```

```
do
```

```
echo "Hello" >> file.1.1.1
```

```
done
```

```
for i in 1 2
```

```
do
```

```
echo "world" >> file.1.1.1
```

```
done
```

```
for i in 1
```

```
do
```

```
echo "*" >> file.1.1.1
```

```
done
```

5- cat file.1.1.1

6- The "tree ~/ " command displayed the directory paths and files in each subdirectory as a tree sutructure.

7- tree /etc > tree_etc

8- less tree_etc

9- brew install zip (I used this command because I use Mac)

10-

```
wget http://download.geonames.org/export/zip/FR.zip
```

```
unzip FR.zip
```

```
rm FR.zip
```

11-
less FR.txt
less readme.txt

When I used the 'less' command, the information in the files appeared in the terminal. It was different from 'cat' command because not all of the information was shown. I should have pressed the button "ENTER" to read the rest of the information. It display the file page by page.

12-
grep 01000 FR.txt

the cities are: Bourg-en-Bresse and Saint-Denis-lès-Bourg

13-
I first created a file to see the ZIP codes in Nice.
touch zip_codes_in_nice

Then:
grep Nice FR.txt > zip_codes_in_nice

Then I should count the number of lines in the file:

wc -l zip_codes_in_nice

There are 233 lines(rows) in the file

14-
mv FR.txt french_zipcodes.txt

15-
ls -l french_zipcodes.txt

16-
chmod 0400 french_zipcodes.txt(Allow read by owner)

chmod 0200 french_zipcodes.txt (Allow write by owner)

chmod 0100 french_zipcodes.txt (For files, allow execution by owner. For directories, allow the owner to search in the directory.)

17-
chmod u+rwX g+r french_zipcodes.txt

18-
chmod g+rx french_zipcodes.txt (when someone has the write permission, then s/he has also delete permission)

19-

```
HELLO="Hello World"
```

```
echo $HELLO
```

20-

```
long_list_of_files="ls"
```

```
$long_list_of_files ../lesson_1
```

21-

```
echo "Please write a name"
```

```
read a_word_from_user
```

```
echo $a_word_from_user > user_reply
```

22-

```
echo 'echo "Give me a user name please"' >> hello.sh
```

```
echo 'read user_name' >> hello.sh
```

```
echo 'echo "Hello, $user_name "' >> hello.sh
```

```
chmod a+rx hello.sh
```

```
./hello.sh
```

23-

```
touch a_file_for_question23
```

```
echo 'echo "Normal Message"' > msg_err.sh
```

```
chmod a+rx msg_err.sh
```

```
echo 'echo "Error Message" > $1' >> msg_err.sh
```

```
./msg_err.sh a_file_for_question23
```

24-

```
echo 'mv $1 $2' > copy.sh
```

```
echo 'cp $2 $3' >> copy.sh
```

```
echo 'echo "Name of the program is $0"' >> copy.sh
```

```
echo 'echo "Nb of arguments is $#"' >> copy.sh
```

```
echo 'echo "Arguments from input are $@"' >> copy.sh
```

```
chmod a+rx copy.sh (give permissions)
```

```
touch arg1 arg2 (create arguments)
```

```
mkdir arg3
```

```
./copy.sh arg1 arg2 arg3
```

25-

```
for i in $(seq 50 99)
```

```
do
```

```
    touch file$i
```

```
done
```

26-

```
rm file*
```

27-

a)

```
echo 'cd */$3' > file_maker.sh
echo 'for i in $(seq 1 $1); do' >> file_maker.sh
echo 'touch $2_$i' >> file_maker.sh
echo 'done' >> file_maker.sh
chmod a+rx file_maker.sh
```

TO RUN: ./file_maker argument_1 argument_2 argument_3

b)

```
cd */$2
```

THEN CREATE THE FILE_RENAMER.SH AS BELOW:

```
#!/bin/sh
```

```
i=$1
```

```
for file in *
do
```

```
if (( i !=0 ));
```

```
then
```

```
file_name=$(echo ${file} )
```

```
mv $file "${file_name}.txt"
```

```
((i=i-1))
```

```
fi
```

```
done
```

c)

FIRST:

```
cd */$1
```

THEN CREATE A :SH FILE NAMED file_mover.sh AND RUN:

```
#!/bin/sh
```

```
txt="txt"
```

```
for file in *
```

```
do
```

```
file_name=$(echo ${file} )
```

```
if [ ${file_name:~-3} = "$txt" ];
```

```
then
```

```
mv $file $2
```

```
fi
```

```
done
```

