Unix

Part 1

Goal: Get familiar with the system

Step 1

- Discover the system
- Start a terminal
- Use man man command, and read the manual

```
hint: hit `q` to quit, read `man less` to learn more about the reader \,
```

Get familiar with echo, cd, ls, mkdir, cp, mv, rm, touch, env, export, unset

```
hint: RTFM! (Read The Fucking Manual =) )
```

Step 2

Create a directory ~/share/ex/unix/part1

```
hint: What is `~`?
RTFM!
```

• Create an empty file ~/share/ex/unix/part1/file1

```
hint: `man touch`
```

• Create a file ~/share/ex/unix/part1/file2 containing Unix Step 2

```
hint: Inputs, Outputs and redirections (`>`, `>>`, `<`, `<<`)
```

• Create a link to > to > to > to > to <a

```
hint: `man ln`
```

Step 3

Write a command in the file ~/share/ex/unix/part1/list which should be able to write a detailed list of all files and directories in ~/share/ex/unix/part1, with colors, human readable file sizes, and a "/" at the end of directories

```
hint: man ls
man touch
```

Change the rights to ~/share/ex/unix/part1/list, giving "read", "write", and
"execution" rights to the owner, "read" and "write" rights to the group, and "read"
only rights to all other user.

```
hint: man chmod
(man chown)
```

Step 4

• Push the content of ~/share repository

```
hint: man git
man git add
man git commit
man git push
```

Part 2

Goal: Learn text editor, go deeper in console usage

Step 1

Write a command in the file ~/share/ex/unix/part2/list which should be able to write a detailed list of all files and directories in ~/share/ex/unix/part1, with colors, human readable file sizes, and a "/" at the end of directories.
 In addition, in the content displayed, all "i" should be replaced by a "z".

```
hint: man sed
What is a `pipe` (`I`)?
```

Write a command in the file ~/share/ex/unix/part2/root which should be able to write a detailed list of all files and directories in /, with colors, human readable file sizes, and a "/" at the end of directories.

Don't display any directory containing the letter "e" and "m".

```
hint: man grep
```

Step 2

• Get familiar with the editor vi

hint: "vi" is hard to use at the begining! Spend some time reading the manual, and search some tricks online! Spend enough time to understand the "insert" modes.

Step 3

Write a bash script in ~/share/ex/unix/part2/script.sh which runs the scripts done in Step 1 and 2. I should be able to run it using cd ~/share/ex/unix/part2/&& ./script.sh

hint: man bash

search online how to write and execute bash scripts

man chmod

• Learn about local and environment variables

hint: man bash man env

Step 4

• Push the content of ~/share repository

hint: man git

man git add man git commit man git pull man git push