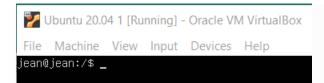
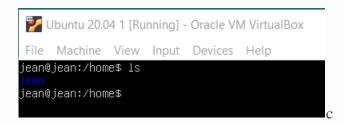
Linux exercise 4 -Basic commands

- 1. What is the path for your home directory? How do you change your current working directory to your home directory?
 - **a.**This is the home directory for user "jean"



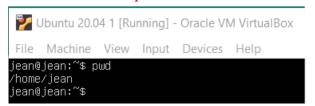
b. This is the overall home directory where we find home directories for different users



The commands cd and cd ~ will switch from current directory to home directory.

2. How can you find out your current working directory?

With the command pwd



3. Explain briefly what option -p does when used with mkdir command. In addition, find out what version number of mkdir command you have.

mkdir -p command can be used to create nested directories, that is if there are no

parent directory it can create them too.

```
Ubuntu 20.04 1 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

jean@jean:~$ mkdir -p parent_dir/child_dir

jean@jean:~$ ls

parent_dir

jean@jean:~$ cd parent_dir/

jean@jean:~/parent_dir$ ls

child_dir

jean@jean:~/parent_dir$
```

You can find its version with mkdir -version command

```
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jean@jean:~$ mkdir --version
mkdir (GNU coreutils) 8.30

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There is NO WARRANTY, to the extent permitted by law.

Written by David MacKenzie.
jean@jean:~$
```

4. Create the following directory structure including the files to your home directory using

your Linux shell. Files can be empty or containing text.

```
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File Machine View Input Devices Help

root@jean:/home/jean# mkdir -p h1/dir_{1..3}

root@jean:/home/jean# ls

n1

root@jean:/home/jean# cd h1/
root@jean:/home/jean/h1# ls

dir_1 dir_2 dir_3

root@jean:/home/jean/h1# cd dir_
dir_1/ dir_2/ dir_3/
root@jean:/home/jean/h1# cd dir_2

root@jean:/home/jean/h1/dir_2# touch File1.txt File2.txt File3.txt File4.txt

root@jean:/home/jean/h1/dir_2# ls

File1.txt File2.txt File3.txt File4.txt

root@jean:/home/jean/h1/dir_2#
```

5. Copy all files with .txt extension from dir2 to dir1 using relative path for directories using only one command.

```
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File Machine View Input Devices Help

root@jean:/home/jean/h1/dir_2# ls

File1.txt File2.txt File3.txt File4.txt

root@jean:/home/jean/h1/dir_2# cp *.txt /home/jean/h1/dir_1

root@jean:/home/jean/h1/dir_2# cd /home/jean/h1/dir_1

root@jean:/home/jean/h1/dir_1# ls

File1.txt File2.txt File3.txt File4.txt

root@jean:/home/jean/h1/dir_1#
```

6. Move all files starting with string File1 from dir2 to dir3 using absolute path for directories using only one command.

```
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File Machine View Input Devices Help

root@jean:/# mv /home/jean/h1/dir_2/File1* /home/jean/h1/dir_3

root@jean:/# /home/jean/h1/dir_3

bash: /home/jean/h1/dir_3: Is a directory

root@jean:/# cd /home/jean/h1/dir_3

root@jean:/home/jean/h1/dir_3# ls

File1.txt

root@jean:/home/jean/h1/dir_3#
```

- 7. Create tmp directory inside your home directory. Copy directory structure created in fourth part starting from directory h1 into the tmp directory in one command.
 - The final directory tree should then look like this: /home/your_user/tmp/h1...

```
Ubuntu 20.04 1 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

root@jean:~# mkdir /home/jean/tmp

root@jean:~# cd /home/jean

root@jean:/home/jean# ls

h1 tmp

root@jean:/home/jean# cp -r h1 tmp

root@jean:/home/jean# cd tmp

root@jean:/home/jean/tmp# ls

h1

root@jean:/home/jean/tmp# cd h1

root@jean:/home/jean/tmp# ls

dir_1 dir_2 dir_3

root@jean:/home/jean/tmp/h1# _
```

8. Remove tmp/h1 directory structure from your home directory using only one

command.

```
Ubuntu 20.04 1 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

root@jean:/home/jean# rm -r tmp

root@jean:/home/jean# ls

h1

root@jean:/home/jean#
```

9. Rename File1.txt file under dir1 in a way it begins with string NewFileX1 (File1.txt

 \rightarrow NewFileX1.txt)

```
Ubuntu 20.04 1 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

root@jean:~# mv /home/jean/h1/dir_1/File1.txt /home/jean/h1/dir_1/NewFileX1.txt

root@jean:~# cd /home/jean/h1/dir_1

root@jean:/home/jean/h1/dir_1# ls

File2.txt File3.txt File4.txt NewFileX1.txt

root@jean:/home/jean/h1/dir_1# _
```

10. Absolute path is a full path to a file(folder) from the root directory (/) Ex: /home/jean/h1/dir_1 is an absolute path to the directory dir_1

A relative path is a path that starts at the current directory and doesn't start with /

Ex: Suppose your pwd is /home/jean/h1/ and you want to go to the directory dir_1. In this case you will just type cd dir_1. You will not need to type the whole absolute path.