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LAB#3: Operating System

#### Exercise 1

Try to change the directory from home to its sub directory like downloads etc

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ pwd
/home/ubuntu
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ cd Downloads/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/Downloads$ cd ..
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ cd OperatingSystem/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OperatingSystem$
```

#### Exercise 2

Try to change the directory from its sub directory to parent directory.

# Using (cd ..)

## Using (cd ∼)

### Exercise 3

Try to use the cd commands and move to root directory from and then get back to home directory.

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ cd /
ubuntu@ubuntu-HP-EliteBook-820-G2:/$ pwd
/
ubuntu@ubuntu-HP-EliteBook-820-G2:/$ cd ~
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ pwd
/home/ubuntu
ubuntu@ubuntu-HP-EliteBook-820-G2:~$
```

### Exercise 4

Make directories by using only one command.

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ mkdir OS
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ ls
AdvancedProgramming
                                          nano.save
assignment.txt
                                          OperatingSystem
CompilerConstruction
Desktop
                                          OS_Lab
DifferentialEquation
                                          Pictures
Documents
                                          Public
Downloads
                                          script.h
eclipse-workspace
                                          snap
examples.desktop
                                          SoftwareEngineering
file1.txt
                                          Templates
Lec#1.pptx
                                          Ubuntubasics
Lec#2.pptx
                                          Videos
Music
                                          Web-development
MyJavaDirectory
```

# **Exercise 5**

After you move inside OS directory. What are you feeling differences between two prompts?

The difference is that before going to OS directory we were at home then after going towards OS we have moved to a subdirectory from our home directory.

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ mkdir OS
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ ls
AdvancedProgramming
                                         MvJavaDirectorv
assignment.txt
                                         nano.save
books
                                         OperatingSystem
CompilerConstruction
                                         05
                                         OS Lab
Desktop
DifferentialEquation
                                         Pictures
Documents
                                         Public
Downloads
                                         script.h
eclipse-workspace
                                         snap
examples.desktop
                                         SoftwareEngineering
file1.txt
                                         Templates
                                                   .04.7-desktop-amd64.iso.gz
          ome-stable current amd64.deb
                                         Ubuntubasics
Lec#1.pptx
Lec#2.pptx
                                         Videos
Music
                                         Web-development
ubuntu@ubuntu-HP-EliteBook-820-G2:~S cd books
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$
```

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd ..
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ pwd
/home/ubuntu
ubuntu@ubuntu-HP-EliteBook-820-G2:~$
```

### **Exercise 6**

Create other directory LAB1 under OS, and move to LAB1 directory.

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ cd OS
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ mkdir LAB1
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS$ cd LAB1
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/LAB1$ cd ~
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ pwd
/home/ubuntu
ubuntu@ubuntu-HP-EliteBook-820-G2:~$
```

### Exercise 7

Go to Home directory directly. without (cd ..) command

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ cd OS/LAB1/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/LAB1$ cd ~
ubuntu@ubuntu-HP-EliteBook-820-G2:~$
```

# **Exercise 8**

Now you are in your home directory. How will you go directly to LAB1 directory?

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ cd OS/LAB1/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/OS/LAB1$
```

#### Exercise 9

Make the following directory hierarchy:

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ mkdir books
ubuntu@ubuntu-HP-EliteBook-820-G2:~$ cd books
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ mkdir math
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ mkdir physics
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ mkdir computer
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ ls
computer math physics
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd math
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ mkdir trignometry
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ mkdir calculus
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ ls
calculus trignometry
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ cd ...
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd physics
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$ mkdir quantum
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$ mkdir classical
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$ mkdir nuclear
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$ ls
classical nuclear quantum
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$
```

### Exercise 10

You are in books directory, from here try to remove sub-directory quantum under the directory physics. ② Now move to directory computer, from here remove sub-directory calculus under the directory math. ② Now create again both removed directories.

```
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ rmdir physics/quantum/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd physics
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$ ls
classical nuclear
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$ cd ...
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd computer
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/computer$ rmdir ../math/calculus/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/computer$ cd ...
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd math
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ ls
trignometry
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ cd ...
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd math
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ mkdir calculus
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ ls
calculus trignometry
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/math$ cd ...
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ mkdir physics/quantum
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books$ cd physics/
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$ ls
classical nuclear quantum
ubuntu@ubuntu-HP-EliteBook-820-G2:~/books/physics$
```