



RIPHAH
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Subject : Operating system(lab)
(Lab 3)

Task 1:

```
ubuntu@ubuntu:~$ mkdir books
ubuntu@ubuntu:~$ mkdir books/maths
ubuntu@ubuntu:~$ mkdir books/physics
ubuntu@ubuntu:~$ mkdir books/computer
ubuntu@ubuntu:~$ mkdir books/maths/trigonometry
ubuntu@ubuntu:~$ mkdir books/maths/calculus
ubuntu@ubuntu:~$ mkdir books/physics/quantum
ubuntu@ubuntu:~$ mkdir books/physics/classical
ubuntu@ubuntu:~$ mkdir books/physics/nuclear
ubuntu@ubuntu:~$ cd books
ubuntu@ubuntu:~/books$ pwd
/home/ubuntu/books
ubuntu@ubuntu:~/books$ ls
computer  maths  physics
ubuntu@ubuntu:~/books$ ^C
ubuntu@ubuntu:~/books$ mkdir chemistry
ubuntu@ubuntu:~/books$ ls
chemistry computer maths physics
ubuntu@ubuntu:~/books$ pwd
/home/ubuntu/books
```

Task 2:

```
ubuntu@ubuntu:~/books$ ls
computer  maths  physics
ubuntu@ubuntu:~/books$ ^C
ubuntu@ubuntu:~/books$ mkdir chemistry
ubuntu@ubuntu:~/books$ ls
chemistry computer maths physics
ubuntu@ubuntu:~/books$ pwd
/home/ubuntu/books
```

Relative Path → Because it does **not** start from the root /. It is written relative to your **home directory**. The **absolute path** would look like: /home/username/books/chemistry

Task 3:

```
ubuntu@ubuntu:~/books/physics/classical$ mkdir /home/ubuntu/books/computer/graphics
ubuntu@ubuntu:~/books/physics/classical$ cd
ubuntu@ubuntu:~$ cd books
ubuntu@ubuntu:~/books$ cd computer
ubuntu@ubuntu:~/books/computer$ ls
graphics
ubuntu@ubuntu:~/books/computer$ cd ..
ubuntu@ubuntu:~/books$ rmdir physics/quantum
ubuntu@ubuntu:~/books$ cd physics
ubuntu@ubuntu:~/books/physics$ ls
classical nuclear
```

Task 4:

```
ubuntu@ubuntu:~/books/computer$ cd ..
ubuntu@ubuntu:~/books$ rmdir physics/quantum
ubuntu@ubuntu:~/books$ cd physics
ubuntu@ubuntu:~/books/physics$ ls
classical nuclear
ubuntu@ubuntu:~/books/physics$ cd ..
ubuntu@ubuntu:~/books$ cd computer
ubuntu@ubuntu:~/books/computer$ rmdir /o^C
ubuntu@ubuntu:~/books/computer$ rmdir /home/ubuntu/books/math/calculus
rmdir: failed to remove '/home/ubuntu/books/math/calculus': No such file or directory
ubuntu@ubuntu:~/books/computer$ rmdir /home/ubuntu/books/maths/calculus
ubuntu@ubuntu:~/books/computer$ cd ..
ubuntu@ubuntu:~/books$ cd maths
ubuntu@ubuntu:~/books/maths$ ls
trigonometry
ubuntu@ubuntu:~/books/maths$
```

Task 5:

Here are the main directory commands used in your case:

- **pwd** → *Print Working Directory*. Shows where you currently are.
- **ls** → *List*. Shows files and directories inside the current directory.
- **cd** → *Change Directory*. Moves you from one directory to another.
- **mkdir** → *Make Directory*. Creates a new folder.
- **rmdir** → *Remove Directory*. Deletes an empty folder.
- **rm -r** → *Remove recursively*. Deletes a directory even if it has files.
- **.** (**dot**) → Refers to the **current directory**.
- **..** (**double dot**) → Refers to the **parent directory** (one step back).
- **~** (**tilde**) → Refers to the **home directory**.

