



## **LAB # 03**

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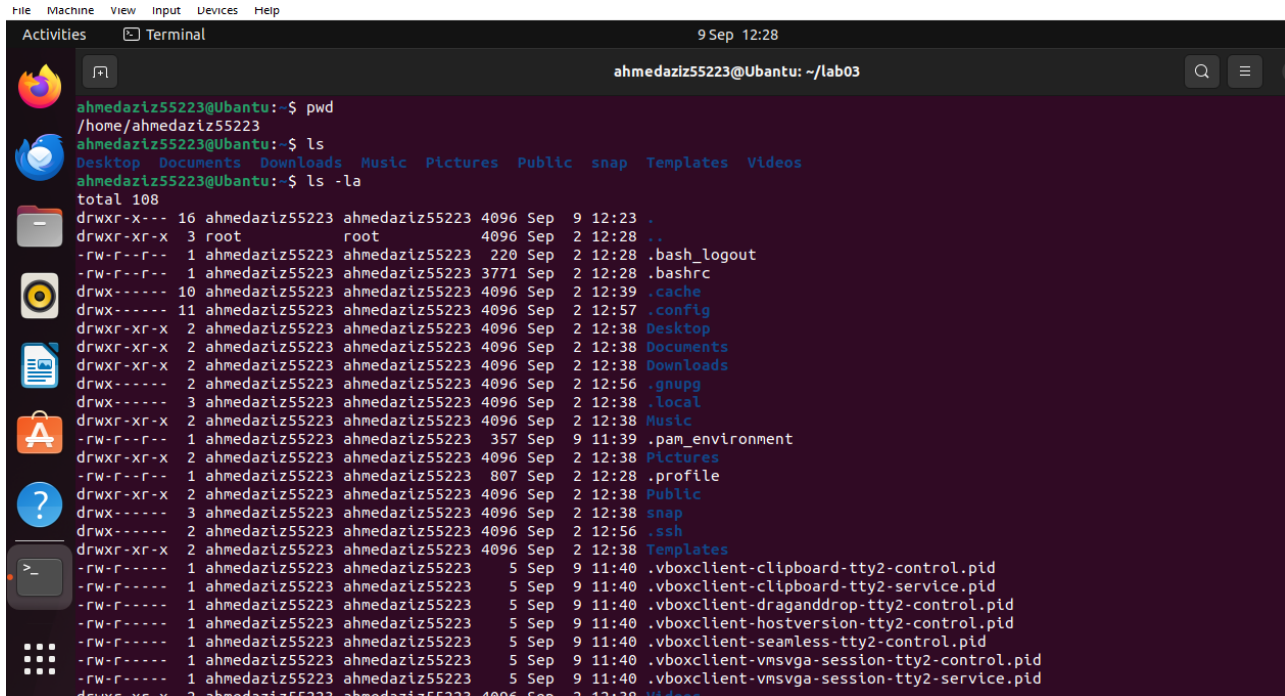
**Sap ID:** 55223

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**Subject:** Operating Systems

## Task 1: Verify that you are in home directory

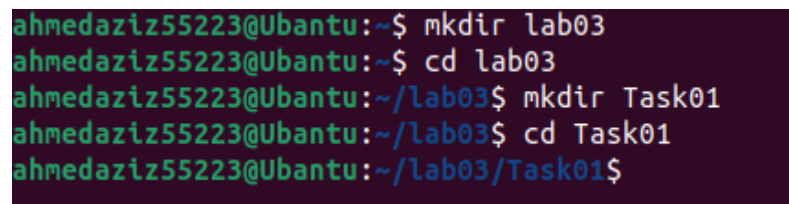
**Command:** pwd, ls, ls -a



A terminal window titled "ahmedaziz55223@Ubuntu: ~/lab03" showing the execution of commands to verify the current directory. The user runs 'pwd' and 'ls', followed by 'ls -la' which displays a detailed directory listing of the home directory.

```
ahmedaziz55223@Ubuntu:~$ pwd
/home/ahmedaziz55223
ahmedaziz55223@Ubuntu:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
ahmedaziz55223@Ubuntu:~$ ls -la
total 108
drwxr-xr-x 16 ahmedaziz55223 ahmedaziz55223 4096 Sep  9 12:23 .
drwxr-xr-x  3 root          root          4096 Sep  2 12:28 ..
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223  220 Sep  2 12:28 .bash_logout
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223 3771 Sep  2 12:28 .bashrc
drwx----- 10 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:39 .cache
drwx----- 11 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:57 .config
drwxr-xr-x  2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 Desktop
drwxr-xr-x  2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 Documents
drwxr-xr-x  2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 Downloads
drwx----- 2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:56 .gnupg
drwx----- 3 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 .local
drwxr-xr-x  2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 Music
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223  357 Sep  9 11:39 .pam_environment
drwxr-xr-x  2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 Pictures
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223  807 Sep  2 12:28 .profile
drwxr-xr-x  3 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 Public
drwx----- 3 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 snap
drwx----- 2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:56 .ssh
drwxr-xr-x  2 ahmedaziz55223 ahmedaziz55223 4096 Sep  2 12:38 Templates
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223    5 Sep  9 11:40 .vboxclient-clipboard-tty2-control.pid
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223    5 Sep  9 11:40 .vboxclient-clipboard-tty2-service.pid
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223    5 Sep  9 11:40 .vboxclient-draganddrop-tty2-control.pid
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223    5 Sep  9 11:40 .vboxclient-hostversion-tty2-control.pid
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223    5 Sep  9 11:40 .vboxclient-seamless-tty2-control.pid
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223    5 Sep  9 11:40 .vboxclient-vmsvga-session-tty2-control.pid
-rw-r--r--  1 ahmedaziz55223 ahmedaziz55223    5 Sep  9 11:40 .vboxclient-vmsvga-session-tty2-service.pid
```

**Command:** mkdir ,cd lab03,cd Task01



A terminal window showing the execution of commands to create a directory and navigate into it. The user runs 'mkdir lab03', 'cd lab03', 'mkdir Task01', and 'cd Task01'.

```
ahmedaziz55223@Ubuntu:~$ mkdir lab03
ahmedaziz55223@Ubuntu:~$ cd lab03
ahmedaziz55223@Ubuntu:~/lab03$ mkdir Task01
ahmedaziz55223@Ubuntu:~/lab03$ cd Task01
ahmedaziz55223@Ubuntu:~/lab03/Task01$
```

## TASK 6:

Make the directory hierarchy

Books:

```
/home/ahmedaziz55223/lab03/Task01
ahmedaziz55223@Ubuntu:~/lab03/Task01$ mkdir books
ahmedaziz55223@Ubuntu:~/lab03/Task01$ cd books
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ ls
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ mkdir ma
```

Book hierarchy:

```
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ mkdir math
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ mkdir physics
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ mkdir computer
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ ls
computer  math  physics
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ cd math
```

Math :

```
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ cd math
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/math$ pwd
/home/ahmedaziz55223/lab03/Task01/books/math
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/math$ mkdir trigonometry
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/math$ mkdir calculus
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/math$ ls
calculus  trigonometry
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/math$ cd trigonometry
```

Physics:

```
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/math$ cd
ahmedaziz55223@Ubuntu:~$ cd lab03/Task01/books
ahmedaziz55223@Ubuntu:~/lab03/Task01/books$ cd
ahmedaziz55223@Ubuntu:~$ cd lab03/Task01/physics
bash: cd: lab03/Task01/physics: No such file or directory
ahmedaziz55223@Ubuntu:~$ cd lab03/Task01/books/physics
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/physics$ mkdir quantum
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/physics$ mkdir classical
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/physics$ mkdir nuclear
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/physics$ ls
classical  nuclear  quantum
ahmedaziz55223@Ubuntu:~/lab03/Task01/books/physics$ cd nuclear
```