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Roll # 23P-0573

CD commands

```
fast@MHLAB-07:/$ cd /home
fast@MHLAB-07:/home$
```

```
fast@MHLAB-07:/home$ cd fast
fast@MHLAB-07:/home/fast$
```

```
fast@MHLAB-07:~/Desktop$ cd demo
fast@MHLAB-07:~/Desktop/demo$
```

```
fast@MHLAB-07:~$ cd Desktop/
fast@MHLAB-07:~/Desktop$
```

```
bash: cd: demo: not a directory
fast@MHLAB-07:~/Desktop$ cd ..
fast@MHLAB-07:~$
```

cd is the commands which switch directory from one to another to desktop

like home to user then user

Is Commands

```
fast@MHLAB-07:~$ ls -a
.          .cache      echo        killing.c   Pictures   .sudo_as_admin_succe
..         .config     .gnupg      .local     .profile   task1.cp
.bash_history Desktop     hello.txt   .mozilla   Public     task1.cpp
.bash_logout Documents   hello.txt.save Music       snap       Templates
.bashrc    Downloads  killing     'New Folder' .ssh       terminating
fast@MHLAB-07:~$ ls -b
Desktop    echo        killing     New\ Folder snap       Templates   Videos
Documents  hello.txt   killing.c   Pictures   task1.cp   terminating
Downloads  hello.txt.save Music       Public     task1.cpp  terminating.c
```

```
fast@MHLAB-07:~$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILES (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
-a, --all                do not ignore entries starting with .
-A, --almost-all        do not list implied . and ..
    --author              with -l, print the author of each file
-b, --escape              print C-style escapes for nongraphic characters
```

cd

```
fast@MHLAB-07:~$ ls -r
Videos      Templates  snap      'New Folder'  killing    echo      Desktop
terminating.c task1.cpp  Public    Music         hello.txt.save Downloads
terminating  task1.cp  Pictures  killing.c     hello.txt  Documents
fast@MHLAB-07:~$ ls -c
Downloads  Documents  killing    Pictures    task1.cpp  Music      Videos
snap      terminating.c terminating hello.txt   task1.cp   Public
Desktop   killing.c   echo      hello.txt.save 'New Folder' Templates
fast@MHLAB-07:~$
```

ls is the command which list all the files and directoris in the in the directory

Sudo commands

```
fast@MHLAB-07:~$ sudo apt install net-tools
[sudo] password for fast:
Sorry, try again.
[sudo] password for fast:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
 net-tools
0 upgraded, 1 newly installed, 0 to remove and 284 not upgraded.
```

sudo commands take permission for the user that should I do this thing or not like it is the way to take permission as a administrator

pwd commands

Absolute path :

```
fast@MHLAB-07:~$ cd ~/Desktop/
fast@MHLAB-07:~/Desktop$
```

absolute path is the step to step path to access any directory or file like first we go to home then further etc

Relative path:

```
fast@MHLAB-07:~/Desktop$ cd ..  
fast@MHLAB-07:~$ cd ./Desktop/  
fast@MHLAB-07:~/Desktop$
```

absolute path is direct access to any directory or file and it is the efficient way to access if you where file actually is located

Tree command

```
fast@MHLAB-07:~$ tree  
Command 'tree' not found, but can be installed with:  
sudo snap install tree # version 2.1.3+pkg-5852, or  
sudo apt install tree # version 2.0.2-1  
See 'snap info tree' for additional versions.  
fast@MHLAB-07:~$ sudo snap install tree  
tree 2.1.3+pkg-5852 from 林博仁(Buo-ren Lin) (brlin) installed  
fast@MHLAB-07:~$
```

```

fast@MHLAB-07:~$ tree
locales-launch: Data of en_US locale not found, generating, please wait...
locales-launch: Data of ur_PK locale not found, generating, please wait...
.
├── Desktop
│   ├── demo
│   ├── Dockerfile
│   └── table.c
├── Documents
│   ├── AbdullahKhan_p229373_BCS5Z.odt
│   ├── AbdullahKhan_p229373_BCS5Z.pdf
│   ├── Untitled 1.odt
│   └── Untitled 1.txt
├── Downloads
│   ├── 1131w-fiDfeTwmI8g.webp
│   ├── 1131w-g3AfEMINJqE.webp
│   ├── Lab#08.pdf
│   ├── Untitled 1.odt
│   ├── Untitled.jpeg
│   └── Untitled.png
├── echo
├── hello.txt
├── hello.txt.save
├── killing
├── killing.c
├── Music
├── New Folder
├── Pictures
└── Screenshots

```

tree is used to show the directories and its files in tree structure

Ifconfig Commands

```

fast@MHLAB-07:~$ ifconfig
docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
    ether 02:42:e5:ce:9c:7d txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

This command is used to check the IP.

Iwconfig commands

```
fast@MHLAB-07:~$ iwconfig
lo                no wireless extensions.

enp0s25          no wireless extensions.

wlp2s0           IEEE 802.11  ESSID:off/any
                  Mode:Managed  Access Point: Not-Associated   Tx-Power=off
                  Retry short limit:7   RTS thr=2347 B   Fragment thr:off
                  Power Management:on
```