Name   Haris
Roll # 23P-0573

CD   commands

cd is the commands which switch directory from one to another   like home to user then user to desktop

ls Commands

```
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:

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
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 filer 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 commands is use 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
```