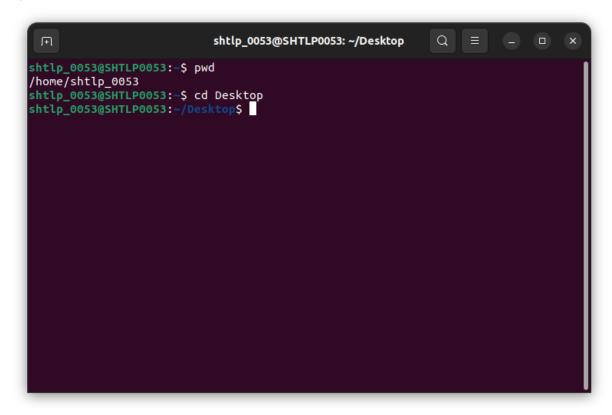
## **Linux Command Line 1**

Shell-The shell can be defined as a command interpreter within an operating system like Linux/GNU or Unix. It is a program that runs other programs.

Terminal -tool to process shell command

## Some Basic Command Line:

- 1)-pwd-present working directory
- 2)-cd-change directory



3)- Is-linux shell command Is [options][file/directory]

```
shtlp_0053@SHTLP0053:~$ ls

Desktop Documents Downloads Music Pictures Public snap Templates Videos

shtlp_0053@SHTLP0053:~$ ls Documents/
'Untitled 1.odt'

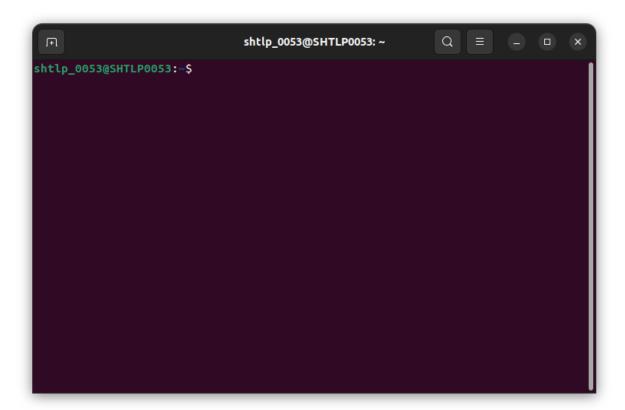
shtlp_0053@SHTLP0053:~$ ls Downloads
'Abha Adhar card.pdf'
'code_1.79.2-1686734195_amd64 (1).deb'

code_1.79.2-1686734195_amd64.deb

google-chrome-stable_current_amd64.deb
'Untitled document.pdf'
'WhatsApp Image 2023-06-21 at 11.48.52(1).jpeg'
'WhatsApp Image 2023-06-21 at 11.48.52(2).jpeg'
'WhatsApp Image 2023-06-21 at 11.48.52.jpeg'
shtlp_0053@SHTLP0053:~$
```

- 4)-clear- this command is used to clear the terminal.
- 5)- Is ~-it will show you root directory
- 6)- Is ..-this means you want to print outonce that back directory structure
- 7)- Is ../..- this means you want to print out once that break directory structure
  - 8)-Is -I you want the list and directory in long format.

```
shtlp_0053@SHTLP0053: ~
shtlp_0053@SHTLP0053:~$ ls /
cdrom home lib64 media
                                    proc sbin swapfile usr
shtlp_0053@SHTLP0053:~$ pwd
/home/shtlp_0053
shtlp_0053@SHTLP0053:~$ ls ..
shtlp_0053@SHTLP0053:~$ ls ../..
bin dev lib libx32 mnt root snap
boot etc lib32 lost+found opt run srv
cdrom home lib64 media proc sbin swapfile
shtlp_0053@SHTLP0053:~$ ls -l
total 36
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 16:51 Documents
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 22:28 Downloads
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Music
drwxr-xr-x 3 shtlp_0053 shtlp_0053 4096 Jun 21 15:04 Pictures
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Public
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Templates
shtlp_0053@SHTLP0053:~$
```



- 9)-ls -a-this will show you hidden files
- 10)-Ls -al-this will show you hidden file and long format combined.

```
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                                  shtlp_0053@SHTLP0053: ~
                                                                                        ×
shtlp_0053@SHTLP0053:~$ ls -a
                                                    .sudo_as_admin_successful
                                        .profile
 .bash_history
.bash_logout
.bashrc
shtlp_0053@SHTLP0053:~$ ls
shtlp_0053@SHTLP0053:~$ ls -al
total 96
drwxr-x--- 20 shtlp_0053 shtlp_0053 4096 Jun 21 21:56
drwxr-xr-x 3 root
                       root
                                      4096 Jun 12 18:47
             1 shtlp_0053 shtlp_0053 967 Jun 22 00:02 .bash_history
-rw-r--r-- 1 shtlp_0053 shtlp_0053 220 Jun 12 18:47 .bash_logout
-rw-r--r-- 1 shtlp_0053 shtlp_0053 3771 Jun 12 18:47 .bashrc
drwx----- 16 shtlp_0053 shtlp_0053 4096 Jun 21 21:56 .cache
drwx----- 18 shtlp_0053 shtlp_0053 4096 Jun 22 12:48 .config
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 16:51 Documents
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 22:28 Downloads
drwx----- 2 shtlp_0053 shtlp_0053 4096 Jun 21 23:53 .gnupg
drwx----- 3 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 .local
drwx----- 3 shtlp_0053 shtlp_0053 4096 Jun 21 21:56 .mozil
                                              Jun 21 21:56 .mozilla
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Music
```

```
Q
                                  shtlp_0053@SHTLP0053: ~
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                                                                                         ×
shtlp_0053@SHTLP0053:~$ ls -a
                                                    .sudo_as_admin_successful
                                         .profile
.bash_history
.bash_logout
.bashrc
shtlp_0053@SHTLP0053:~$ ls
shtlp_0053@SHTLP0053:~$ ls -al
total 96
drwxr-x--- 20 shtlp_0053 shtlp_0053 4096 Jun 21 21:56
                                        4096 Jun 12 18:47
drwxr-xr-x 3 root
                            root
-rw------ 1 shtlp 0053 shtlp 0053 967 Jun 22 00:02 .bash history
-rw-r--r-- 1 shtlp_0053 shtlp_0053 220 Jun 12 18:47 .bash_logout
-rw-r--r-- 1 shtlp_0053 shtlp_0053 3771 Jun 12 18:47 .bashrc
drwx----- 16 shtlp_0053 shtlp_0053 4096 Jun 21 21:56 .cache
drwx----- 18 shtlp_0053 shtlp_0053 4096 Jun 22 12:48 .config
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 16:51 Documents
drwx-----
             2 shtlp_0053 shtlp_0053 4096 Jun 21 23:53 .gnupg
drwx----- 3 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 .local
drwx----- 3 shtlp_0053 shtlp_0053 4096 Jun 21 21:56 .mozilla
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Music
                                              Jun 12 18:49 .local
```

11)- Is -IS-this will short your directory by size.

```
shtlp_0053@SHTLP0053:~$ ls -lS

total 36

drwxr-xr-x 4 shtlp_0053 shtlp_0053 4096 Jun 22 12:45 Desktop

drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 16:51 Documents

drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 22:28 Downloads

drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 28:49 Music

drwxr-xr-x 3 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Pictures

drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Public

drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 12:04 snap

drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Templates

drwxr-xr-x 3 shtlp_0053 shtlp_0053 4096 Jun 21 23:37 Videos

shtlp_0053@SHTLP0053:~$
```

## 12)-Is [Directory]/\*.[format]

```
shtlp_0053@SHTLP0053:~$ pwd
/home/shtlp_0053
shtlp_0053@SHTLP0053:~$ ls Downloads/
'Abha Adhar card.pdf'
'code_1.79.2-1686734195_amd64 (1).deb'
code_1.79.2-1686734195_amd64.deb
google-chrome-stable_current_amd64.deb
'Untitled document.pdf'
'WhatsApp Image 2023-06-21 at 11.48.52(1).jpeg'
'WhatsApp Image 2023-06-21 at 11.48.52(2).jpeg'
'WhatsApp Image 2023-06-21 at 11.48.52.jpeg'
shtlp_0053@SHTLP0053:~$ ls Downloads/*.pdf
'Downloads/Abha Adhar card.pdf' 'Downloads/Untitled document.pdf'
shtlp_0053@SHTLP0053:~$
```

13) Is -IS > out.txt - save the output in out.txt

14) Is -d \*/- lists directory

```
shtlp_0053@SHTLP0053:~ Q = - □ ×

shtlp_0053@SHTLP0053:~$ ls -d*/
ls: invalid option -- '*'

Try 'ls --help' for more information.
shtlp_0053@SHTLP0053:~$ ls -d */

Desktop/ Downloads/ Pictures/ snap/ Videos/
Documents/ Music/ Public/ Templates/
shtlp_0053@SHTLP0053:~$
```

- 15)- cat options file1 file2 -cat echos anything written
- 16)- cat file1.txt file2.txt

17)- cat -b file1.txt - this command adds line no to the text file and skips the blank lines

```
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                               shtlp_0053@SHTLP0053: ~
                                                            Q
shtlp_0053@SHTLP0053:~$ cat out.txt
total 36
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 21 22:28 Downloads
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Music
drwxr-xr-x 3 shtlp_0053 shtlp_0053 4096 Jun 21 15:04 Pictures
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Public
drwx----- 6 shtlp_0053 shtlp_0053 4096 Jun 21 12:04 snap
drwxr-xr-x 2 shtlp_0053 shtlp_0053 4096 Jun 12 18:49 Templates
-rw-rw-r-- 1 shtlp_0053 shtlp_0053 0 Jun 22 14:01 out.txt
shtlp_0053@SHTLP0053:~$ cat list1.txt
list 1 line 1
list 1 line 2
list 1 line 3
shtlp_0053@SHTLP0053:~$ cat -b list1.txt
     1 list 1 line 1
     2 list 1 line 2
     3 list 1 line 3
 shtlp_0053@SHTLP0053:~$
```

18)-cat -n file.txt- this command lie adds line no to the text file and including blank lines.

```
shtlp_0053@SHTLP0053:~$ cat -n list1.txt

1 list 1 line 1

2 list 1 line 2

3

4

5

6

7

8

9 list 1 line 3

shtlp_0053@SHTLP0053:~$
```

19)-cat -s file.txt- this command line squeezes all the blank lines in 1 (only displaying not changing).

```
shtlp_0053@SHTLP0053:~$ cat -s list1.txt
list 1 line 1
list 1 line 2
list 1 line 3
shtlp_0053@SHTLP0053:~$
```

20)-cat -E file.txt- this command line puts \$ sign at end of lines.

## 21) man cat:-

man: dictionary of linux, it gives all the ways you can use cat command. 22)-cat > text.txt- this command helps to create new file and exit using ctrl d.

```
shtlp_0053@SHTLP0053:~$ cat>text.txt
list1 list2 list3
list 4 list5
shtlp_0053@SHTLP0053:~$
```