

PRACTICE BASIC BASH, IO REDIRECTION, PIPE, FILE AND DIRECTORY OPERATIONS, SEARCHING FILES, PROCESS MANAGEMENT AND VI/NANO EDITOR COMMANDS

1.whoami → Display the username

```
vaibhav@vaibhav:~$ whoami  
vaibhav
```

2.hostname → Displays the hostname

```
vaibhav@vaibhav:~$ hostname  
vaibhav
```

3.ls → Displays the list of directories

```
vaibhav@vaibhav:~$ ls  
Desktop Documents Downloads lab Music Pictures Public snap Templates Videos
```

4.ls -la → Displays the list of directories including hidden files and other details

```
vaibhav@vaibhav:~$ ls -la  
total 96  
drwxr-x--- 16 vaibhav vaibhav 4096 Sep 28 20:52 .  
drwxr-xr-x  3 root    root    4096 Sep 27 22:42 ..  
-rw-----  1 vaibhav vaibhav 1136 Sep 28 20:54 .bash_history  
-rw-r--r--  1 vaibhav vaibhav  220 Sep 27 22:42 .bash_logout  
-rw-r--r--  1 vaibhav vaibhav 3771 Sep 27 22:42 .bashrc  
drwx----- 14 vaibhav vaibhav 4096 Sep 28 19:20 .cache  
drwx----- 14 vaibhav vaibhav 4096 Sep 28 19:22 .config  
drwxr-xr-x  2 vaibhav vaibhav 4096 Sep 27 22:49 Desktop  
drwxr-xr-x  2 vaibhav vaibhav 4096 Sep 27 22:49 Documents  
drwxr-xr-x  2 vaibhav vaibhav 4096 Sep 27 22:49 Downloads  
drwxrwxr-x  3 vaibhav vaibhav 4096 Sep 28 19:18 lab  
drwx-----  3 vaibhav vaibhav 4096 Sep 27 22:49 .local  
drwxr-xr-x  2 vaibhav vaibhav 4096 Sep 27 22:49 Music  
drwxr-xr-x  4 vaibhav vaibhav 4096 Sep 28 20:53 Pictures  
drwx-----  3 vaibhav vaibhav 4096 Sep 28 19:20 .pki  
-rw-r--r--  1 vaibhav vaibhav  807 Sep 27 22:42 .profile  
drwxr-xr-x  2 vaibhav vaibhav 4096 Sep 27 22:49 Public  
drwx-----  4 vaibhav vaibhav 4096 Sep 27 22:51 snap  
-rw-r--r--  1 vaibhav vaibhav   0 Sep 27 22:55 .sudo_as_admin_successful  
drwxr-xr-x  2 vaibhav vaibhav 4096 Sep 27 22:49 Templates  
-rw-r----- 1 vaibhav vaibhav   5 Sep 28 20:51 .vboxclient-clipboard.pid  
-rw-r----- 1 vaibhav vaibhav   5 Sep 28 20:51 .vboxclient-display-svg-x11.pid  
-rw-r----- 1 vaibhav vaibhav   5 Sep 28 20:51 .vboxclient-draganddrop.pid  
-rw-r----- 1 vaibhav vaibhav   5 Sep 28 20:51 .vboxclient-seamless.pid  
drwxr-xr-x  2 vaibhav vaibhav 4096 Sep 27 22:49 Videos
```

5.pwd → Displays the current working directory

```
vaibhav@vaibhav:~$ pwd  
/home/vaibhav
```

6.cd <dir name> → To access the directory

```
vaibhav@vaibhav:~$ cd Desktop  
vaibhav@vaibhav:~/Desktop$
```

7.cd → To go back to the previous directory

```
vaibhav@vaibhav:~/Desktop$ cd  
vaibhav@vaibhav:~$
```

8.cd → To go to home directory

```
vaibhav@vaibhav:~$ cd Desktop/lab  
vaibhav@vaibhav:~/Desktop/lab$
```

9. cd <path> → To open a particular directory using path

```
vaibhav@vaibhav:~$ cd Desktop/lab  
vaibhav@vaibhav:~/Desktop/lab$
```

10. touch <filename> → To create a file

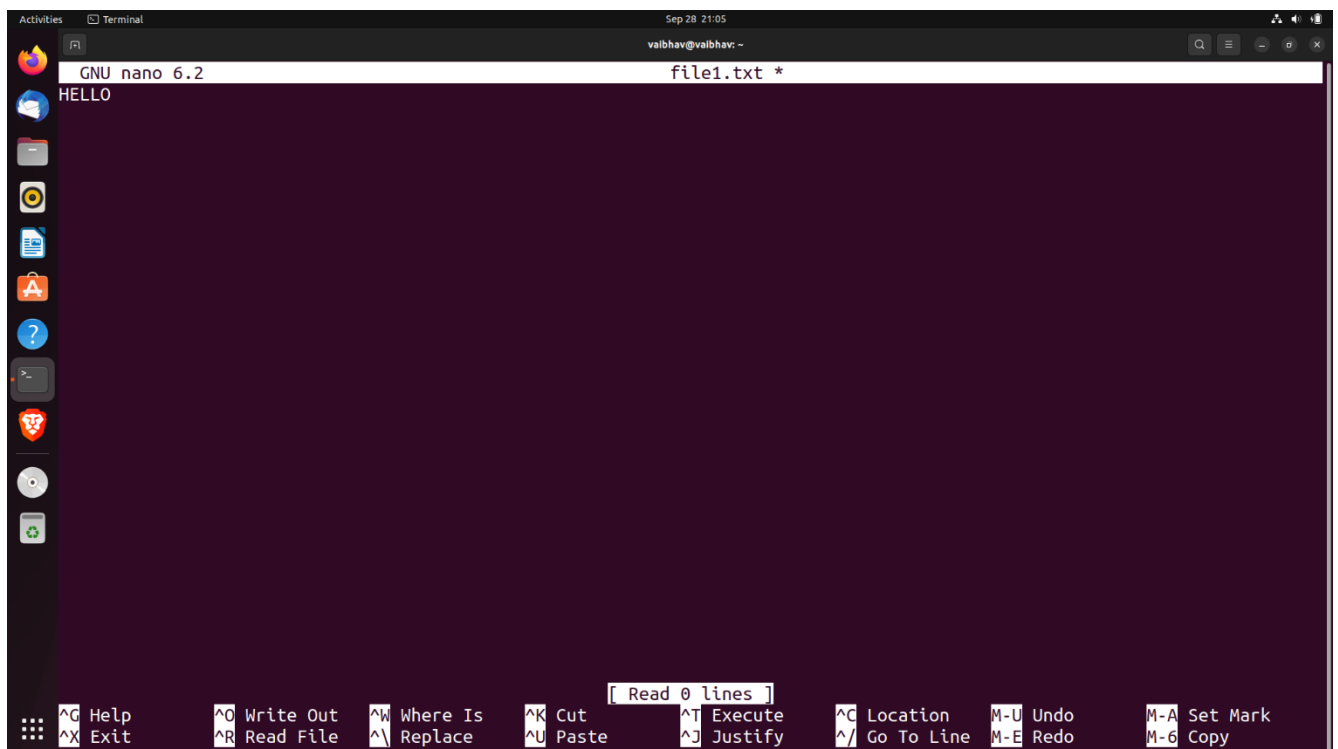
```
vaibhav@vaibhav:~$ touch file1.txt
vaibhav@vaibhav:~$ ls
Desktop  Documents  Downloads  file1.txt  lab  Music  Pictures  Public  snap  Templates  Videos
```

11. touch <filename>{from..to} → To create multiple files instantly

```
vaibhav@vaibhav:~$ touch file{2..5}.txt
vaibhav@vaibhav:~$ ls
Desktop  Downloads  file2.txt  file4.txt  lab  Pictures  snap  Videos
Documents  file1.txt  file3.txt  file5.txt  Music  Public  Templates
```

12. vi/nano <filename> → Creates a file and open in write mode

```
vaibhav@vaibhav:~$ nano file1.txt
```



13. `cat <filename>` → Displays the content in the file

```
vaibhav@vaibhav:~$ cat file1.txt  
HELLO
```

14. `mkdir <dirname>` → Creates a directory

```
vaibhav@vaibhav:~$ mkdir lab1  
vaibhav@vaibhav:~$ ls  
Desktop    Downloads  file2.txt  file4.txt  lab  Music    Public  Templates  
Documents  file1.txt  file3.txt  file5.txt  lab1 Pictures snap    Videos
```

15. `mkdir -v <dirname>` → Creates a directory and displays the status

```
vaibhav@vaibhav:~$ mkdir -v lab2  
mkdir: created directory 'lab2'
```

16. `mkdir -p <dirname/dirname2>` → Creates a directory within a directory

```
vaibhav@vaibhav:~$ mkdir -p lab1/new  
vaibhav@vaibhav:~$ cd lab1  
vaibhav@vaibhav:~/lab1$ ls  
new  
vaibhav@vaibhav:~/lab1$ cd new
```

17. rm <filename> → To remove/delete a file

```
Desktop  Downloads file2.txt file4.txt folder lab1 Music Public Templates
Documents file1.txt file3.txt file5.txt lab lab2 Pictures snap Videos
vaibhav@vaibhav:~$ rm file2.txt
vaibhav@vaibhav:~$ ls
Desktop  Downloads file3.txt file5.txt lab lab2 Pictures snap Videos
Documents file1.txt file4.txt folder lab1 Music Public Templates
```

18. rmdir <dirname> → To remove/delete a directory

```
vaibhav@vaibhav:~$ ls
Desktop  Downloads file3.txt file5.txt lab lab2 Pictures snap Videos
Documents file1.txt file4.txt folder lab1 Music Public Templates
vaibhav@vaibhav:~$ rmdir lab2
vaibhav@vaibhav:~$ ls
Desktop  Downloads file3.txt file5.txt lab Music Public Templates
Documents file1.txt file4.txt folder lab1 Pictures snap Videos
```

19. mv <filename> <newname> → To rename a file

```
vaibhav@vaibhav:~$ ls
Desktop  Downloads file3.txt file5.txt lab Music Public Templates
Documents file1.txt file4.txt folder lab1 Pictures snap Videos
vaibhav@vaibhav:~$ mv file3.txt vai.txt
vaibhav@vaibhav:~$ ls
Desktop  Downloads file4.txt folder lab1 Pictures snap vai.txt
Documents file1.txt file5.txt lab Music Public Templates Videos
```

20. mv <filename> <path> → To move a file from a directory to a specified directory

```
vaibhav@vaibhav:~$ mv vai.txt Desktop
vaibhav@vaibhav:~$ cd Desktop
vaibhav@vaibhav:~/Desktop$ ls
lab vai.txt
```

21. `mv -i <filename> <path>` → To move a file and ask permission to overwrite if file already exists

```
vaibhav@vaibhav:~$ mv -i vai.txt Desktop
mv: overwrite 'Desktop/vai.txt'? y
vaibhav@vaibhav:~$ cd Desktop
vaibhav@vaibhav:~/Desktop$ ls
lab  vai.txt
```

22. `mv -n <filename> <path>` → To move a file and deny permission to overwrite if file already exists

```
vaibhav@vaibhav:~$ mv -n vai.txt Desktop
vaibhav@vaibhav:~$ ls
Desktop  Downloads  file4.txt  folder  lab1  Pictures  snap  vai.txt
Documents  file1.txt  file5.txt  lab     Music  Public  Templates  Videos
```

23. `mv -b <filename> <path>` → To move a file and create a backup of the old file

```
vaibhav@vaibhav:~$ mv -b vai.txt Desktop
vaibhav@vaibhav:~$ cd Desktop
vaibhav@vaibhav:~/Desktop$ ls
lab  vai.txt  vai.txt~
```