



**Marwadi**  
University  
Marwadi Chandarana Group



## **FACULTY OF TECHNOLOGY**

Computer Engineering  
Operating System Lab Manual

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1. 

```
Linux@asif:~/Desktop/Asif_OS$ cd commands
Linux@asif:~/Desktop/Asif_OS/commands$
```
2. 

```
Linux@asif:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
```
3. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ mkdir commands2
Linux@asif:~/Desktop/Asif_OS/commands$
```
4. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ rmdir commands2
Linux@asif:~/Desktop/Asif_OS/commands$
```
5. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ cp Asif.txt Asif2.txt
Linux@asif:~/Desktop/Asif_OS/commands$
```
6. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ mv Asif.txt commands2
Linux@asif:~/Desktop/Asif_OS/commands$
```
7. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ rm Asif2.txt
Linux@asif:~/Desktop/Asif_OS/commands$
```
8. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ touch commands3
Linux@asif:~/Desktop/Asif_OS/commands$ ls
commands2  commands3
Linux@asif:~/Desktop/Asif_OS/commands$
```
9. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ cat commands2
Asif Alam
Linux@asif:~/Desktop/Asif_OS/commands$
```
10. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ man touch
Linux@asif:~/Desktop/Asif_OS/commands$
```
11. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ ps
  PID TTY          TIME CMD
 4551 pts/0    00:00:00 bash
 5875 pts/0    00:00:00 ps
Linux@asif:~/Desktop/Asif_OS/commands$
```



## **Practical 1: Demonstrate different commands of Linux (min. 15 commands).**

1. cd – change directory  
cd directory\_name #syntax  
This command is used to switch between different directories.
2. ls – list  
ls #syntax  
This command is used to display all the files or directory in current directory.
3. mkdir – make directory  
mkdir folder\_name #syntax  
This command is used to make a new directory.
4. rmdir – remove directory  
rmdir folder\_name #syntax  
This command is used to delete whole directory (if directory is empty).
5. cp – copy  
cp source\_file destination\_file #syntax  
This command is used to copy one file content to another one.
6. mv – move  
mv source\_folder destination\_folder #syntax  
This command is used to move any folder to another directory.
7. rm – remove  
rm file\_name #syntax  
This command is used to remove/delete the file.
8. touch – create file  
touch file\_name #syntax  
This command is used to create a new file in current directory.
9. cat – content display  
cat file\_name #syntax  
This command is used to display the content of a file.
10. man – manual  
man command\_name #syntax  
This command is used to display all the functionality of any particular command.
11. ps – process  
ps #syntax  
This command is used to display all the process currently running.



12. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ diff commands2 commands3
1d0
< Asif Alam
Linux@asif:~/Desktop/Asif_OS/commands$
```

13. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ sort commands2
Asif Alam
Linux@asif:~/Desktop/Asif_OS/commands$
```

14. 

```
Linux@asif:~/Desktop/Asif_OS/commands$ top
```

  
top - 00:58:30 up 1:11, 1 user, load average: 2.08, 2.05, 2.09  
Tasks: 332 total, 1 running, 331 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.5 us, 0.2 sy, 0.0 ni, 99.2 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
MiB Mem : 7765.9 total, 5000.5 free, 1051.3 used, 1714.1 buff/cache  
MiB Swap: 15259.0 total, 15259.0 free, 0.0 used. 6182.7 avail Mem  

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
4443	sahil	20	0	571752	60696	45200	S	6.3	0.8	0:17.02	gnome-terminal-
1833	sahil	20	0	6102080	300708	146120	S	4.0	3.8	3:32.81	gnome-shell
243	root	-51	0	0	0	0	S	2.7	0.0	0:16.79	irq/128-ELAN1203:00
139	root	-51	0	0	0	0	D	0.3	0.0	0:06.12	irq/124-pcie-dpc
161	root	20	0	0	0	0	D	0.3	0.0	0:08.91	kworker/u32:3+mt76
170	root	0	-20	0	0	0	I	0.3	0.0	0:10.84	kworker/u33:0-i915_flip
207	root	10	1	72216	25068	25072	S	0.2	0.5	0:08.05	systemd-journal

15.



12. diff – difference

diff filename1 filename2 #syntax

This command is used to compare the difference between two files.

13. sort – sorting

sort filename #syntax

This command is used to sort the file in alphabetical order.

14. top

Top #syntax

This command is used as a CLI version of task manager.

15. passwd – password

Passwd #syntax

This command is used to change the password.