

OPERATING SYSTEM

ASSIGNMENT :- 1

1) man

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ man
What manual page do you want?
For example, try 'man man'.
```

2) uname

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ uname
Linux
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$
```

3) pwd

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ pwd
/home/sunbeam/Desktop
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$
```

4) hostname

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ hostname
sunbeam-Nitro-AN515-42
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$
```

5) date

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ date
Monday 25 December 2023 03:07:31 PM IST
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$
```

6) cal

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ cal
    December 2023
Su Mo Tu We Th Fr Sa
                1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
```

7) ls

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ ls
google-chrome-stable_current_amd64.deb  node_modules  package-lock.json
new                                       package.json
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$
```

8) dir

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ dir
google-chrome-stable_current_amd64.deb  node_modules  package-lock.json
new                                       package.json
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$
```

9) cat

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ cat assign.txt
This is an assignment file
This is of Operating system module
```

10) cat >>

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ cat >> assign.txt
This is an append cammand to append the file content
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ cat assign.txt
This is an assignment file
This is of Operating system module
This is an append cammand to append the file content
```

11) mv (move file)

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ mv assign.txt os_demo
```

12) mv (rename)

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ mv assign.txt new_assign.txt
```

13) tac

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ tac
DMC 1
DMC 2
DMC 3
DMC 4

DMC 4
DMC 3
DMC 2
DMC 1
```

14) rev

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ rev
DMC 1
1 CMD
DMC 2
2 CMD
```

15) wc

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ wc
This is a word count command it is very useful.
      1      10      48
```

16) mkdir

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ mkdir roman
```

17) rmdir

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ rmdir roman
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ ls
copy.text  DSA      F2.txt  File.txt  lokesh.text
DBT        F1.txt  F3.txt  JAVA      OS
```

18) cd

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ cd os_demo
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$
```

19) rm

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ ls
copy.text  DSA      F2.txt  File.txt  lokesh.text  OS
DBT        F1.txt  F3.txt  JAVA      new_assign.txt  os_concept.txt
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ rm new_assign.txt
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ ls
copy.text  DSA      F2.txt  File.txt  lokesh.text  os_concept.txt
DBT        F1.txt  F3.txt  JAVA      OS
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$
```

20) touch

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ touch os_concept.txt
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ ls
copy.text  DSA      F2.txt  File.txt  lokesh.text  os_concept.txt
DBT        F1.txt  F3.txt  JAVA      OS
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$
```

21) head

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ head -3 number.txt
1
45
67
```

22) tail

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ tail -3 number.txt
22
222
89
```

23) echo

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ echo "Hello DMC"
Hello DMC
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$
```

24) sort

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ sort
1
34
56
78
89
12
23
45
9
99
65

1
12
23
34
45
56
65
78
89
9
99
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$
```

25) uniq

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ uniq number.txt
1
45
67
45
34
23
45
67
2
22
222
89
```


26) ps

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ ps
```

PID	TTY	TIME	CMD
4139	pts/0	00:00:00	bash
4996	pts/0	00:00:00	rev
5591	pts/0	00:00:00	ps

27) env

A screenshot of a terminal window titled "Activities" and "Terminal". The terminal shows the command prompt "sunbeam@sunbeam-Nitro-AN515-42: ~/Desktop/os_demo\$ env" and the output of the "env" command. The output lists various environment variables including SHELL, SESSION_MANAGER, QT_ACCESSIBILITY, COLORTERM, XDG_CONFIG_DIRS, SSH_AGENT_LAUNCHER, XDG_MENU_PREFIX, GNOME_DESKTOP_SESSION_ID, LANGUAGE, GNOME_SHELL_SESSION_MODE, SSH_AUTH_SOCK, XMODIFIERS, DESKTOP_SESSION, GTK_MODULES, PWD, LOGNAME, XDG_SESSION_DESKTOP, XDG_SESSION_TYPE, SYSTEMD_EXEC_PID, XAUTHORITY, HOME, USERNAME, IM_CONFIG_PHASE, and LANGUAGE. The terminal window has a dark background and a light-colored text. The top of the window shows the title bar with "Activities", "Terminal", and the system clock "Dec 26, 16:28". The bottom of the window shows the command prompt "sunbeam@sunbeam-Nitro-AN515-42: ~/Desktop/os_demo\$".

28) factor

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ factor 3
3: 3
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ factor 45
45: 3 3 5
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$
```

29) alias

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ alias MK="cd os_demo"
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ MK
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$
```

30) unalias

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ unalias MK
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ cd ~
sunbeam@sunbeam-Nitro-AN515-42:~$ MK
MK: command not found
sunbeam@sunbeam-Nitro-AN515-42:~$
```

31) Kill

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
4281	sunbeam	20	0	1134.1g	407844	131736	S	10.6	2.7	4:13.30	chrome
1839	sunbeam	20	0	5475956	318416	162560	S	3.3	2.1	1:12.49	gnome-s+
3971	sunbeam	20	0	32.7g	172684	126012	S	1.7	1.1	1:06.15	chrome
4661	sunbeam	20	0	13216	4224	3328	R	1.0	0.0	0:00.59	top
3816	sunbeam	20	0	556764	54668	42460	S	0.7	0.4	0:01.22	gnome-t+
165	root	-51	0	0	0	0	S	0.3	0.0	0:03.95	irq/31+
421	root	20	0	0	0	0	I	0.3	0.0	0:02.49	kworker+
651	systemd+	20	0	14828	6784	6016	S	0.3	0.0	0:02.22	systemd+
1090	mysql	20	0	2307936	395244	35200	S	0.3	2.6	0:12.01	mysqld
3923	sunbeam	20	0	32.6g	274176	184848	S	0.3	1.8	0:27.91	chrome
3975	sunbeam	20	0	32.4g	123640	96696	S	0.3	0.8	0:09.28	chrome
1	root	20	0	166972	11408	8080	S	0.0	0.1	0:02.79	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par+
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_fl+
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop$ kill 3971
```

32) cp

```
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ ls
copy.text  DSA      F2.txt  File.txt  lokesh.text  OS
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ cp os_concept.txt os_concept2.txt
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$ ls
copy.text  DSA      F2.txt  File.txt  lokesh.text  OS      os_concept.txt
DBT        F1.txt  F3.txt  JAVA      number.txt   os_concept2.txt
sunbeam@sunbeam-Nitro-AN515-42:~/Desktop/os_demo$
```

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