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Command 1 :- who

whoami

```
[root@localhost /]# who
[root@localhost /]# whoami
root
```

```
[root@localhost /]# tty
/dev/hvc0
```
Command 2 :- tty

```
[root@localhost /]# ls
bin    dev   home  lib64         media   opt    root   sbin   sys   usr
boot   etc   lib   lost+found    mnt     proc   run    srv    tmp   var
```
Command 3:-ls

Command 4 :- ls -l

```
[root@localhost /]# ls -l
total 72
lrwxrwxrwx    1 root root     7 Aug 12  2020 bin -> usr/bin
drwxrwxr-x    2 root root    37 Dec  7  2020 boot
drwxr-xr-x    3 root root 12180 Dec 31  1969 dev
drwxr-xr-x  125 root root  6673 Dec 26  2020 etc
drwxr-xr-x    2 root root    37 Aug 12  2020 home
lrwxrwxrwx    1 root root     7 Aug 12  2020 lib -> usr/lib
lrwxrwxrwx    1 root root     9 Aug 12  2020 lib64 -> usr/lib64
drwx------    2 root root    37 Dec  7  2020 lost+found
drwxr-xr-x    2 root root    37 Aug 12  2020 media
drwxr-xr-x    2 root root    37 Aug 12  2020 mnt
drwxr-xr-x    2 root root    37 Aug 12  2020 opt
dr-xr-xr-x   29 root root     0 Dec 31  1969 proc
dr-xr-x---    2 root root   243 Dec 26  2020 root
drwxr-xr-x   26 root root   716 Dec 26  2020 run
lrwxrwxrwx    1 root root     8 Aug 12  2020 sbin -> usr/sbin
drwxr-xr-x    2 root root    37 Aug 12  2020 srv
dr-xr-xr-x   11 root root     0 Dec 31  1969 sys
drwxrwxrwt    3 root root   188 Dec 26  2020 tmp
drwxr-xr-x   12 root root   274 Dec  7  2020 usr
drwxr-xr-x   19 root root   457 Dec  7  2020 var
```

```
LS(1)                        User Commands                        LS(1)

NAME
       ls - list directory contents

SYNOPSIS
       ls [OPTION]... [FILE]...

DESCRIPTION
       List  information  about  the FILEs (the current directory by default).
       Sort entries alphabetically if none of -cftuvSUX nor --sort  is  speci-
       fied.

       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

       --block-size=SIZE
 Manual page ls(1) line 1 (press h for help or q to quit)
```

Command 5 :- man

```
[root@localhost /]# cal
      October 2024
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
```
Command 6 :- cal

```
[root@localhost /]# date
Wed Oct  9 08:21:40 PM UTC 2024
```
Command 7 :- date

```
[root@localhost /]# echo "your name"
your name
```
Command 8 :- echo

```
[root@localhost /]# cat >file1.txt
hello guys
^Z
```
Command 9 :- cat

```
[root@localhost /]# mkdir dir1
[root@localhost /]# ls
bin   dev   etc       home  lib64        media  opt   root  sbin  sys  usr
boot  dir1  file.txt  lib   lost+found   mnt    proc  run   srv   tmp  var
[root@localhost /]#
```
Command 10 :- mkdir

```
[root@localhost /]# cmp file1.txt file2.txt
cmp: EOF on file1.txt after byte 11, line 1
```
Command 11 :- cmp

```
[root@localhost /]# comm file1.txt file2.txt
            hello guys
      i am a student
```
Command 12 :- comm

Command 13 :- diff

```
[root@localhost /]# diff file1.txt file2.txt
1a2
> i am a student
```

```
[root@localhost /]# head -n2 file3.txt
hello
gus
```
Command 14 :- head

```
[root@localhost /]# tail -n2 file3.txt
i am a student
of shell
```
Command 15 :- tail

Command 16 :- chown username file

```
root@localhost /]# cat >dhruv.txt
hello i m dhruv sharma
i am learnig cyber security
^Z
[1]+  Stopped(SIGTSTP)          cat > dhruv.txt
root@localhost /]# ll dhruv.txt
-rw-r--r-- 1 root root 51 Sep 11 19:49 dhruv.txt
root@localhost /]# adduser kali
root@localhost /]# cdhome
sh: cdhome: command not found
root@localhost /]# cd home
root@localhost home]# ls
kali
root@localhost home]# cd/
sh: cd/: No such file or directory
root@localhost home]# cd /
root@localhost /]# chown dhruv.txt kali
chown: invalid user: 'dhruv.txt'
root@localhost /]# chown kali dhruv.txt
root@localhost /]# ll dhruv.txt
-rw-r--r-- 1 kali root 51 Sep 11 19:49 dhruv.txt
root@localhost /]# addgroup login
sh: addgroup: command not found
root@localhost /]# groupadd login
root@localhost /]# chgrp login dhruv.txt
root@localhost /]# ll dhruv.txt
-rw-r--r-- 1 kali login 51 Sep 11 19:49 dhruv.txt
root@localhost /]#
```

chgrp username file

Command 17 :- chmod

```
[root@localhost /]# chmod 777 dhruv.txt
[root@localhost /]# ll dhruv .txt
ls: cannot access 'dhruv': No such file or directory
ls: cannot access '.txt': No such file or directory
[root@localhost /]# ll dhruv.txt
-rwxrwxrwx 1 kali login 51 Sep 11 19:49 dhruv.txt
[root@localhost /]# chmod u-w dhruv.txt
[root@localhost /]# ll dhruv.txt
-r-xrwxrwx 1 kali login 51 Sep 11 19:49 dhruv.txt
[root@localhost /]#
```


Command 18 :- gzip

```
[root@localhost /]# gzip dhruv*
[root@localhost /]# ls
bin          dhruv13.gz  dhruv19.gz  dhruv5.gz    etc          mnt    srv
boot         dhruv14.gz  dhruv1.gz   dhruv6.gz    home         opt    sys
dev          dhruv15.gz  dhruv20.gz  dhruv7.gz    lib          proc   tmp
dhruv10.gz   dhruv16.gz  dhruv2.gz   dhruv8.gz    lib64        root   usr
dhruv11.gz   dhruv17.gz  dhruv3.gz   dhruv9.gz    lost+found   run    var
dhruv12.gz   dhruv18.gz  dhruv4.gz   dhruv.txt.gz media        sbin
[root@localhost /]#
```

gunzip

```
[root@localhost /]# gunzip dhruv*
gzip: dhruv1: unknown suffix -- ignored
gzip: dhruv1 already exists; do you wish to overwrite (y or n)? y
[root@localhost /]# ls
bin        dhruv11  dhruv16  dhruv20  dhruv7      home         mnt    sbin  var
boot       dhruv12  dhruv17  dhruv3   dhruv8      lib          opt    srv
dev        dhruv13  dhruv18  dhruv4   dhruv9      lib64        proc   sys
dhruv1     dhruv14  dhruv19  dhruv5   dhruv.txt   lost+found   root   tmp
dhruv10    dhruv15  dhruv2   dhruv6   etc         media        run    usr
```

Command 19:- tar

```
root@dhruv-virtual-machine:/# touch dhruv{1..20}
root@dhruv-virtual-machine:/# ls
bin   cdrom  dhruv1   dhruv11  dhruv13  dhruv15  dhruv17  dhruv19  dhruv20  dhruv4  dhruv6  dhruv8  etc   lib    lib64   lost+found  mnt   proc  run   snap  swapfile  tmp  var
boot  dev    dhruv10  dhruv12  dhruv14  dhruv16  dhruv18  dhruv2   dhruv3   dhruv5  dhruv7  dhruv9  home  lib32  libx32  media       opt   root  sbin  srv   sys       usr
root@dhruv-virtual-machine:/# tar -cvf dhruv.tar dhruv*
dhruv1
dhruv10
dhruv11
dhruv12
dhruv13
dhruv14
dhruv15
dhruv16
dhruv17
dhruv18
dhruv19
dhruv2
dhruv20
dhruv3
dhruv4
dhruv5
dhruv6
dhruv7
dhruv8
dhruv9
root@dhruv-virtual-machine:/# ls
bin   cdrom  dhruv1   dhruv11  dhruv13  dhruv15  dhruv17  dhruv19  dhruv20  dhruv4  dhruv6  dhruv8  dhruv.tar  home  lib32  libx32         media  opt   root  sbin  srv   sys  usr
boot  dev    dhruv10  dhruv12  dhruv14  dhruv16  dhruv18  dhruv2   dhruv3   dhruv5  dhruv7  dhruv9  etc        lib    lib64  lost+found  mnt   proc  run   snap  swapfile  tmp  var
root@dhruv-virtual-machine:/#
```

Command 20:- pr

```
root@dhruv-virtual-machine:/# pr -3 file1.txt


2024-10-28 10:32              file1.txt              Page 1


1              5              9
2              6              10
3              7              1
4              8
```

Command 21:- cut

```
root@dhruv-virtual-machine:/# cut -c 2-4 5-6 file2.txt
cut: 5-6: No such file or directory
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root@dhruv-virtual-machine:/# cut -c +512 file2.txt
cut: invalid byte/character position '+512'
Try 'cut --help' for more information.
root@dhruv-virtual-machine:/#
```

Command 22:- paste

Command 23:- sort

```
root@dhruv-virtual-machine:/# sort -n file3.txt
3
4
5
5
5
23
23
45
67
root@dhruv-virtual-machine:/#
```

Command 24:- uniq

```
root@dhruv-virtual-machine:/# cat >file4.txt
I love music
I love music
I love music

I love music of arijeet singh
i love music of arijeet singh
^Z
[5]+  Stopped                 cat > file4.txt
root@dhruv-virtual-machine:/# uniq file4.txt
I love music

I love music of arijeet singh
i love music of arijeet singh
root@dhruv-virtual-machine:/#
```

Command 25:- tr

```
root@dhruv-virtual-machine:/# tr '.' ',' <file2.txt | head
Sure! Here's a random text you can use for a text file:

---

**Title: The Whispering Woods**

In the heart of the ancient forest, where sunlight danced through the leaves, there lay a hidden glade, The air was thick with the scent of pine and wildflowers, and the gentle rustle of the trees seemed
 to carry secrets of ages past,

Legend spoke of the Whispering Woods, a place where the trees could communicate with those who dared to listen, It was said that if you found the oldest oak, its gnarled branches would share tales of for
gotten times,

root@dhruv-virtual-machine:/#
```

Command 26:- ps

```
root@dhruv-virtual-machine:/# ps
    PID TTY          TIME CMD
   4647 pts/0    00:00:00 su
   4648 pts/0    00:00:00 bash
   4915 pts/0    00:00:00 cat
   5311 pts/0    00:00:00 cat
   5345 pts/0    00:00:00 cat
   5458 pts/0    00:00:00 cat
   5465 pts/0    00:00:00 cat
  44099 pts/0    00:00:00 ps
root@dhruv-virtual-machine:/#
```

Command 27:- &

```
root@dhruv-virtual-machine:/# sort -n file5.txt &
[8] 64804
root@dhruv-virtual-machine:/# 3
3
4
5
34
34
66
78
678
^C
[8]   Done                 sort -n file5.txt
root@dhruv-virtual-machine:/#
```

Command 28:- nohup

```
root@dhruv-virtual-machine:/# nohup sort -n file5.txt &
[8] 66380
root@dhruv-virtual-machine:/# nohup: ignoring input and appending output to 'nohup.out'

[8]   Done                 nohup sort -n file5.txt
root@dhruv-virtual-machine:/# cat nohup.out
3
3
4
5
34
34
66
78
678
root@dhruv-virtual-machine:/#
```

Command 29:- nice

```
root@dhruv-virtual-machine:/# nice wc -l file2.txt &
[8] 66434
root@dhruv-virtual-machine:/# 19 file2.txt

[8]   Done                 nice wc -l file2.txt
root@dhruv-virtual-machine:/#
```

Command 30:- kill

```
root@dhruv-virtual-machine:/# ps
    PID TTY          TIME CMD
 66531 pts/0     00:00:00 su
 66532 pts/0     00:00:00 bash
 66551 pts/0     00:00:00 cat
 66554 pts/0     00:00:00 cat
 66589 pts/0     00:00:00 ps
root@dhruv-virtual-machine:/# kill -9 66554
root@dhruv-virtual-machine:/# ps
    PID TTY          TIME CMD
 66531 pts/0     00:00:00 su
 66532 pts/0     00:00:00 bash
 66551 pts/0     00:00:00 cat
 66590 pts/0     00:00:00 ps
[2]+  Killed                  cat > file2.txt
root@dhruv-virtual-machine:/# kill 66531

Session terminated, killing shell...root@dhruv-virtual-machine:/#  ...killed.
Terminated
dhruv@dhruv-virtual-machine:/$ 
```

Command 31:- jobs

```
root@dhruv-virtual-machine:/# cat >file1.txt
hello i am learning cyber security
^Z
[1]+  Stopped                 cat > file1.txt
root@dhruv-virtual-machine:/# jobs
[1]+  Stopped                 cat > file1.txt
root@dhruv-virtual-machine:/# cat >file2.txt
Hello everyone
^Z
[2]+  Stopped                 cat > file2.txt
root@dhruv-virtual-machine:/# jobs
[1]-  Stopped                 cat > file1.txt
[2]+  Stopped                 cat > file2.txt
root@dhruv-virtual-machine:/# 
```