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BCA 3C
23/SCA/BCA(AIML)/052

Command: **who**

```
mrrobo@mrrobo:~$ who
mrrobo  seat0      2024-11-14 13:28 (login screen)
mrrobo  tty2        2024-11-14 13:28 (tty2)
```

Command: **whoami**

```
mrrobo@mrrobo:~$ whoami
mrrobo
```

Command: **man**

```
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
    Manual page ls(1) line 1 (press h for help or q to quit)
```

Command: **cal**

```
mrrobo@mrrobo:~$ cal
      November 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
```

Command: **date**

```
mrrobo@mrrobo:~$ date "+%d %m %Y"
14 11 2024
```

Command: **echo**

```
mrrobo@mrrobo:~$ echo "this is echo command"
this is echo command
```

Command: **passwd**

```
mrrobo@mrrobo:~$ passwd
Changing password for mrrobo.
Current password:
New password:
Retype new password:
passwd: password updated successfully
```

Command: **cat**

```
mrrobo@mrrobo:~$ cat file1.txt
this is a file
```

ls

```
mrrobo@mrrobo:~$ ls
Desktop    Downloads  file1.txt  file4  newdir  Pictures  snap      Videos
Documents  file1      file2      Music  newshell Public    Templates
```

Command:

```
mrrobo@mrrobo:~$ ls -l
total 60
drwxr-xr-x 2 mrrobo mrrobo 4096 Aug  6 15:50 Desktop
drwxr-xr-x 2 mrrobo mrrobo 4096 Aug  6 15:50 Documents
drwxr-xr-x 2 mrrobo mrrobo 4096 Aug  6 15:50 Downloads
-rw-rw-r-- 1 mrrobo mrrobo   80 Sep 26 09:13 file1
-rw-rw-r-- 1 mrrobo mrrobo   16 Nov 14 13:40 file1.txt
-rw-rw-r-- 1 mrrobo mrrobo   15 Sep 26 08:54 file2
-rw-rw-r-- 1 mrrobo mrrobo   30 Sep 26 08:57 file4
drwxr-xr-x 2 mrrobo mrrobo 4096 Aug  6 15:50 Music
drwxrwxr-x 2 mrrobo mrrobo 4096 Aug 22 09:07 newdir
drwxrwxr-x 2 mrrobo mrrobo 4096 Sep 26 08:52 newshell
drwxr-xr-x 3 mrrobo mrrobo 4096 Nov 14 09:04 Pictures
drwxr-xr-x 2 mrrobo mrrobo 4096 Aug  6 15:50 Public
drwx----- 4 mrrobo mrrobo 4096 Aug  8 18:00 snap
drwxr-xr-x 2 mrrobo mrrobo 4096 Aug  6 15:50 Templates
drwxr-xr-x 2 mrrobo mrrobo 4096 Aug  6 15:50 Videos
```

```
mrrobo@mrrobo:~$ ls -x
Desktop  Documents  Downloads  file1  file1.txt  file2  file4  Music  newdir
newshell Pictures  Public    snap   Templates  Videos
```

```
mrrobo@mrrobo:~$ ls -F
Desktop/  file1      file4      newshell/  snap/
Documents/ file1.txt  Music/     Pictures/  Templates/
Downloads/ file2      newdir/    Public/    Videos/
```

```
mrrobo@mrrobo:~$ ls -R
.:
Desktop    Downloads  file1.txt  file4  newdir  Pictures  snap      Videos
Documents  file1      file2      Music  newshell Public    Templates

./Desktop:

./Documents:

./Downloads:

./Music:

./newdir:
file1

./newshell:

./Pictures:
Screenshots

./Pictures/Screenshots:
'Screenshot from 2024-11-14 09-04-44.png'
'Screenshot from 2024-11-14 09-06-20.png'
```

Command: **tty**

```
mrrobo@mrrobo:~$ tty
/dev/pts/0
```

Command: **wc**

```
mrrobo@mrrobo:~$ wc file1.txt
 2  4 16 file1.txt
```

\$PATH

```
mrrobo@mrrobo:~$ $PATH
bash: /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/u
sr/local/games:/snap/bin:/snap/bin: No such file or directory
```

Command:

Command: **cd**

```
alan@alan-virtual-machine:/$ cd home/alan
alan@alan-virtual-machine:~$ ls
alan1      Documents  file1.txt.gz  file4.txt      name1.txt  Pictures  snap      testdir      testfile.txt
alanarchive.tar Downloads  file2.txt.gz  file4.txt.gz  name2.txt  proxysql  Templates testfile1.txt Videos
Desktop    file1.txt  file3.txt      Music          newshell   Public    testarchive testfile2.txt
alan@alan-virtual-machine:~$ cd ..
alan@alan-virtual-machine:/home$ ls
alan
```

Command: **mkdir**

```
mrrobo@mrrobo:~$ mkdir prateek
```

Command: **rmdir**

```
mrrobo@mrrobo:~$ rmdir prateek
```

Command: **pwd**

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

Command: **\$HOME**

```
mrrobo@mrrobo:~$ $HOME
bash: /home/mrrobo: Is a directory
```

Command:

cmp

```
mrrobo@mrrobo:~$ cmp file1 file2
file1 file2 differ: byte 9, line 1
```

Command: **comm**

```
mrrobo@mrrobo:~$ comm file1 file2
this is a file
this is a file
comm: file 1 is not in sorted order
my terminal name is mrrobo
```

ommand: **diff**

```
mrrobo@mrrobo:~$ diff file1 file2
1,4c1
< this is a file
< this is a file
< my terminal name is mrrobo
< linux is mutli user os
---
> this is file 2
```

Command: **chown**

```
mrrobo@mrrobo:~$ sudo chown mrrobo:sarthak file1.txt
mrrobo@mrrobo:~$ ll file1.txt
-rw-rw-r-- 1 mrrobo sarthak 16 Nov 14 13:40 file1.txt
mrrobo@mrrobo:~$ ll file3.txt
```

Command:

```
mrrobo@mrrobo:~$ chmod 444 file3.txt
mrrobo@mrrobo:~$ ll file2.txt
ls: cannot access 'file2.txt': No such file or directory
mrrobo@mrrobo:~$ ll file3.txt
-r--r--r-- 1 mrrobo mrrobo 18 Nov 14 14:31 file3.txt
```

```
mrrobo@mrrobo:~$ chmod 444 file3.txt
mrrobo@mrrobo:~$ ll file2.txt
ls: cannot access 'file2.txt': No such file or directory
```

Command: **gzip** and **gunzip**

```
mrrobo@mrrobo:~$ ls
Desktop  Downloads  file1.txt  file3.txt  Music  newshell  Public  Templates
Documents file1      file2      file4      newdir  Pictures  snap    Videos
mrrobo@mrrobo:~$ gzip file3.txt
mrrobo@mrrobo:~$ ls
Desktop  file1      file3.txt.gz  newdir  Public  Videos
Documents file1.txt  file4         newshell snap
Downloads file2      Music         Pictures Templates
mrrobo@mrrobo:~$ gunzip file3.txt.gz
mrrobo@mrrobo:~$ ls
Desktop  Downloads  file1.txt  file3.txt  Music  newshell  Public  Templates
Documents file1      file2      file4      newdir  Pictures  snap    Videos
```

Command: **tar cf**, **tar tf**, **tar xf**

```
mrrobo@mrrobo:~$ tar cf testarchive file1.txt file3.txt
mrrobo@mrrobo:~$ ls
Desktop  file1      file3.txt  newdir  Public  testarchive
Documents file1.txt  file4      newshell snap    testarchive
Downloads file2      Music     Pictures  Templates Videos
mrrobo@mrrobo:~$ tar tf testarchive
file1.txt
file3.txt
mrrobo@mrrobo:~$ tar xf testarchive
mrrobo@mrrobo:~$ ls
Desktop  file1      file3.txt  newdir  Public  testarchive
Documents file1.txt  file4      newshell snap    testarchive
Downloads file2      Music     Pictures  Templates Videos
```

Command:

head

```
mrrobo@mrrobo:~$ head -n 3 file1.txt
this is a file
```

Command: **tail**

```
mrrobo@mrrobo:~$ tail -n 2 file1.txt
this is a file
```

Command: **grep**

```
mrrobo@mrrobo:~$ man rm | grep -i "remove"
rm - remove files or directories
This manual page documents the GNU version of rm. rm removes each
specified file. By default, it does not remove directories.
ways option is given, rm prompts the user for whether to remove the
Remove (unlink) the FILE(s).
do not remove '/' (default); with 'all', reject any command line
remove directories and their contents recursively
remove empty directories
By default, rm does not remove directories. Use the --recursive (-r or
-R) option to remove each listed directory, too, along with all of its
To remove a file whose name starts with a '-', for example '-foo', use
```

Command: **sort**

```
mrrobo@mrrobo:~$ cat companies.txt
google
xiaomi
oppo
apple
mrrobo@mrrobo:~$ sort companies.txt
apple
google
oppo
xiaomi
```



```
mrrobo@mrrobo:~$ cat > numbers.txt
9
4
18
12
3
2
0
10^Z
[1]+  Stopped                  cat > numbers.txt
mrrobo@mrrobo:~$ sort -n numbers.txt
0
2
3
4
9
12
18
```

```
mrrobo@mrrobo:~$ sort -r file3.txt
this is your file
```

Command: **cp**

```
alan@alan-virtual-machine:~$ cp name1.txt name2.txt
alan@alan-virtual-machine:~$ cat name2.txt
Apple
Google
Microsoft
Samsung
```

Command:

mv

```
mrrobo@mrrobo:~$ mv file1.txt Music
mrrobo@mrrobo:~$ ls Music
file1.txt
```

Command: **ps**

```
mrrobo@mrrobo:~$ ps
  PID TTY          TIME CMD
 3177 pts/0    00:00:02 bash
 4318 pts/0    00:00:00 cat
 4367 pts/0    00:00:00 ps
```

Command: **&**

```
(kali㉿kali)-[~]
└─$ sort -n file1.txt &
[2] 2616

2
3
10
15
27
30
37
72
[2] - done      sort -n file1.txt
```

nohup

Command:

```
(kali㉿kali)-[~]  
$ nohup sort -n file1.txt &  
[2] 2945  
  
nohup: ignoring input and appending output to 'nohup.out'  
[2] - done          nohup sort -n file1.txt
```

Command: nice

```
mrrobo@mrrobo:~$ nice wc -l file3.txt &  
[2] 4384  
mrrobo@mrrobo:~$ 1 file3.txt  
  
[2]-  Done          nice wc -l file3.txt
```

Command: kill

```
(kali㉿kali)-[~]  
$ ps  
  PID TTY          TIME CMD  
 2451 pts/0        00:00:01 zsh  
 2543 pts/0        00:00:00 cat  
 3057 pts/0        00:00:00 cat  
 3099 pts/0        00:00:00 ps  
  
(kali㉿kali)-[~]  
$ kill -9 2543  
  
[1] - killed      cat > file1.txt
```

Command:

jobs

```
mrrobo@mrrobo:~$ cat >file4.txt
this file name is file4.txt
^Z
[3]+  Stopped                  cat > file4.txt
mrrobo@mrrobo:~$ cat >file5.txt
this is file5.txt
^Z
[4]+  Stopped                  cat > file5.txt
mrrobo@mrrobo:~$ jobs
[1]  Stopped                  cat > numbers.t
[2]  Stopped                  cat > file1.txt
[3]- Stopped                  cat > file4.txt
[4]+ Stopped                  cat > file5.txt
```