

```
devesh@Dev: ~  
devesh@Dev:~$ ls  
cdac dev1.txt dev2.txt dev3.txt dir1 dir2 dir3 dir4  
devesh@Dev:~$ cd dir1  
devesh@Dev:~/dir1$ cd ..  
devesh@Dev:~$ gzip dev3.txt  
devesh@Dev:~$ ls -ltr  
total 28  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:26 dir4  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:38 dir1  
-rw-r--r-- 1 devesh devesh 0 Apr 12 23:41 dev1.txt  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:43 dir3  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:45 dir2  
-rw-r--r-- 1 devesh devesh 77 Apr 12 23:48 dev2.txt  
-rw-r--r-- 1 devesh devesh 483 Apr 12 23:53 dev3.txt.gz  
drwxr-xr-x 2 devesh devesh 4096 Apr 13 12:24 cdac  
devesh@Dev:~$ gunzip dev3.txt  
devesh@Dev:~$ ls -ltr  
total 28  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:26 dir4  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:38 dir1  
-rw-r--r-- 1 devesh devesh 0 Apr 12 23:41 dev1.txt  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:43 dir3  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:45 dir2  
-rw-r--r-- 1 devesh devesh 77 Apr 12 23:48 dev2.txt  
-rw-r--r-- 1 devesh devesh 906 Apr 12 23:53 dev3.txt  
drwxr-xr-x 2 devesh devesh 4096 Apr 13 12:24 cdac  
devesh@Dev:~$ tar cvf archive.tar cdac  
cdac/
```



```
devesh@Dev: ~  
drwxr-xr-x 2 devesh devesh 4096 Apr 13 12:24 cdac  
devesh@Dev:~$ tar cvf archive.tar cdac  
cdac/  
cdac/sub1.txt  
cdac/sub.txt  
cdac/sub2.txt  
devesh@Dev:~$ pwd  
/home/devesh  
devesh@Dev:~$ cd dir3  
devesh@Dev:~/dir3$ mkdir new  
devesh@Dev:~/dir3$ cd new  
devesh@Dev:~/dir3/new$ touch one.txt two.txt  
devesh@Dev:~/dir3/new$ vi one.txt  
devesh@Dev:~/dir3/new$ tar cvf newone.tar new  
tar: new: Cannot stat: No such file or directory  
tar: Exiting with failure status due to previous errors  
devesh@Dev:~/dir3/new$ tar cvf newone.tar dir3  
tar: dir3: Cannot stat: No such file or directory  
tar: Exiting with failure status due to previous errors  
devesh@Dev:~/dir3/new$ cd ..  
devesh@Dev:~/dir3$ cd ..  
devesh@Dev:~$ tar cvf newone.tar dir3  
dir3/  
dir3/new/  
dir3/new/newone.tar  
dir3/new/one.txt  
dir3/new/two.txt  
dir3/dev1.txt
```



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```
devesh@Dev: ~  
devesh@Dev:~$ tar -tvf one.txt  
tar: one.txt: Cannot open: No such file or directory  
tar: Error is not recoverable: exiting now  
devesh@Dev:~$ tar -tvf newone.tar  
drwxr-xr-x devesh/devesh    0 2023-04-13 12:38 dir3/  
drwxr-xr-x devesh/devesh    0 2023-04-13 12:42 dir3/new/  
-rw-r--r-- devesh/devesh 10240 2023-04-13 12:42 dir3/new/newone.tar  
-rw-r--r-- devesh/devesh   257 2023-04-13 12:41 dir3/new/one.txt  
-rw-r--r-- devesh/devesh    0 2023-04-13 12:39 dir3/new/two.txt  
-rw-r--r-- devesh/devesh    0 2023-04-12 23:43 dir3/dev1.txt  
devesh@Dev:~$ tar -xvf archive.tar  
cdac/  
cdac/sub1.txt  
cdac/sub.txt  
cdac/sub2.txt  
devesh@Dev:~$ rm archive.tar  
devesh@Dev:~$ tar -zcvf archive.tgz cdac  
cdac/  
cdac/sub1.txt  
cdac/sub.txt  
cdac/sub2.txt  
devesh@Dev:~$ ls -ltr  
total 52  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:26 dir4  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:38 dir1  
-rw-r--r-- 1 devesh devesh    0 Apr 12 23:41 dev1.txt
```



```
devesh@Dev: ~  
devesh@Dev:~$ ls -ltr  
total 52  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:26 dir4  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:38 dir1  
-rw-r--r-- 1 devesh devesh 0 Apr 12 23:41 dev1.txt  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:45 dir2  
-rw-r--r-- 1 devesh devesh 77 Apr 12 23:48 dev2.txt  
-rw-r--r-- 1 devesh devesh 906 Apr 12 23:53 dev3.txt  
drwxr-xr-x 2 devesh devesh 4096 Apr 13 12:24 cdac  
drwxr-xr-x 3 devesh devesh 4096 Apr 13 12:38 dir3  
-rw-r--r-- 1 devesh devesh 20480 Apr 13 12:43 newone.tar  
-rw-r--r-- 1 devesh devesh 164 Apr 13 12:48 archive.tgz  
devesh@Dev:~$ echo devesh  
devesh  
devesh@Dev:~$ printf("it is used to print")  
-bash: syntax error near unexpected token `('it is used to p  
rint''  
devesh@Dev:~$ printf "it is used to print"  
it is used to printdevesh@Dev:~$ printf "it is used to prin  
t\n"  
it is used to print  
devesh@Dev:~$ ls -l  
total 52  
-rw-r--r-- 1 devesh devesh 164 Apr 13 12:48 archive.tgz  
drwxr-xr-x 2 devesh devesh 4096 Apr 13 12:24 cdac  
-rw-r--r-- 1 devesh devesh 0 Apr 12 23:41 dev1.txt  
-rw-r--r-- 1 devesh devesh 77 Apr 12 23:48 dev2.txt  
-rw-r--r-- 1 devesh devesh 906 Apr 12 23:53 dev3.txt
```



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```
devesh@Dev: ~  
devesh@Dev:~$ ls -l  
total 52  
-rw-r--r-- 1 devesh devesh 164 Apr 13 12:48 archive.tgz  
drwxr-xr-x 2 devesh devesh 4096 Apr 13 12:24 cdac  
-rw-r--r-- 1 devesh devesh 0 Apr 12 23:41 dev1.txt  
-rw-r--r-- 1 devesh devesh 77 Apr 12 23:48 dev2.txt  
-rw-r--r-- 1 devesh devesh 906 Apr 12 23:53 dev3.txt  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:38 dir1  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:45 dir2  
drwxr-xr-x 3 devesh devesh 4096 Apr 13 12:38 dir3  
drwxr-xr-x 2 devesh devesh 4096 Apr 12 23:26 dir4  
-rw-r--r-- 1 devesh devesh 20480 Apr 13 12:43 newone.tar  
devesh@Dev:~$ awk '{print NR}' names  
awk: fatal: cannot open file 'names' for reading: No such file or directory  
devesh@Dev:~$ awk '{print NR}' dev1.txt  
devesh@Dev:~$ awk '{print NR}' dev2.txt  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11
```

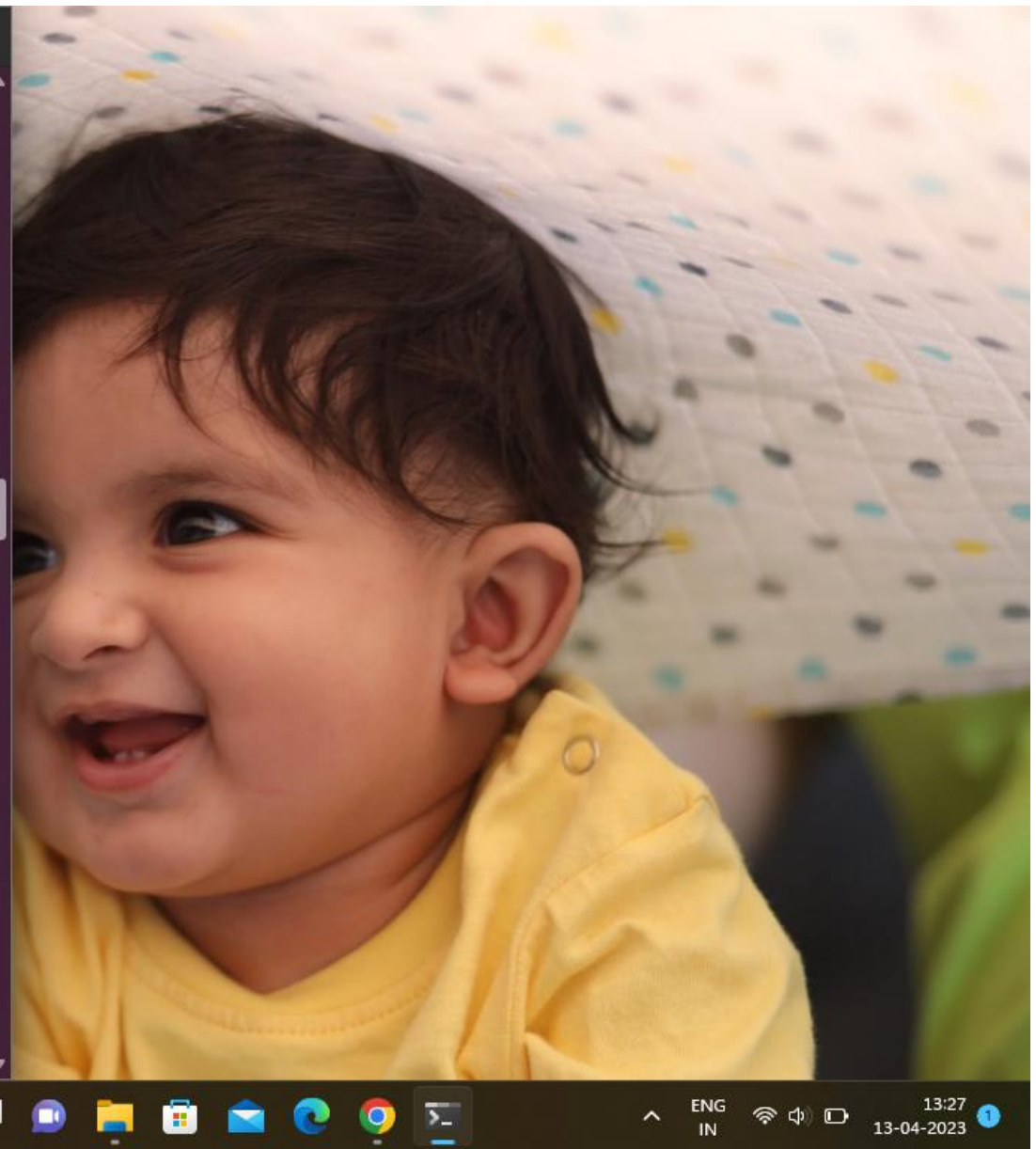


```
devesh@Dev: ~  
devesh@Dev:~$ awk '{print NR $0}' dev2.txt  
1Devesh  
2Suraj  
3Cdac  
4Engineering  
5Electrical  
6Mechanical  
7Civil  
8It  
9Cs  
10EnTC  
11Branch  
12  
devesh@Dev:~$ awk '{print NR, $0}' dev2.txt  
1 Devesh  
2 Suraj  
3 Cdac  
4 Engineering  
5 Electrical  
6 Mechanical  
7 Civil  
8 It  
9 Cs  
10 EnTC  
11 Branch  
12  
devesh@Dev:~$ awk '{print NR "- " $0}' dev2.txt  
1- Devesh
```





```
devesh@Dev: ~  
devesh@Dev:~$ awk '{print NR "-" $0}' dev2.txt  
1- Devesh  
2- Suraj  
3- Cdac  
4- Engineering  
5- Electrical  
6- Mechanical  
7- Civil  
8- It  
9- Cs  
10- EnTC  
11- Branch  
12-  
devesh@Dev:~$ awk '{if($1>D) print $0}' dev2.txt  
Devesh  
Suraj  
Cdac  
Engineering  
Electrical  
Mechanical  
Civil  
It  
Cs  
EnTC  
Branch  
devesh@Dev:~$ awk '{if($1=="Suraj") print $0}' dev2.txt  
Suraj  
devesh@Dev:~$ awk '{if($1=="Branch"){ $1="Edited"} print $0}'
```



```
devesh@Dev: ~  
devesh@Dev:~$ awk '{if($1=="Branch"){ $1="Edited"} print $0}' dev2.txt  
Devesh  
Suraj  
Cdac  
Engineering  
Electrical  
Mechanical  
Civil  
It  
Cs  
EnTC  
Edited  
  
devesh@Dev:~$ awk '/ICC/ { print $}' dev3.txt  
awk: cmd. line:1: /ICC/ { print $}  
awk: cmd. line:1: ^ syntax error  
devesh@Dev:~$ awk '/ICC/ {print $}' dev3.txt  
awk: cmd. line:1: /ICC/ {print $}  
awk: cmd. line:1: ^ syntax error  
devesh@Dev:~$ awk '/ICC/ {print $0}' dev3.txt  
Virat Kohli is an Indian cricketer and former captain of the Indian national team. He is considered one of the best batsmen in the world and holds several records in cricket. He made his international debut in 2008 and has since then represented India in all three formats of the game. He has been a consistent performer for India and has been the backbone of the Indian batting line-up. In 2013, he was appointed
```





```
devesh@Dev: ~  
devesh@Dev:~$ awk '/ICC/ {print $0}' dev3.txt  
Virat Kohli is an Indian cricketer and former captain of the Indian national team. He is considered one of the best batsmen in the world and holds several records in cricket. He made his international debut in 2008 and has since then represented India in all three formats of the game. He has been a consistent performer for India and has been the backbone of the Indian batting line-up. In 2013, he was appointed as the vice-captain of the ODI team and became the captain of the team in 2017. Under his captaincy, India has reached several milestones including becoming the number-one team in Test cricket and reaching the final of the 2017 ICC Champions Trophy. He has also been honoured with several awards for his performances including the Sir Garfield Sobers Trophy for ICC ODI Player of the Year in 2017 and 2018. He is known for his aggressive captaincy and his never-say-die attitude on the field  
devesh@Dev:~$ awk 'NR=="5" {print $0}' dev3.txt  
devesh@Dev:~$ awk 'NR=="5" {print $0}' dev2.txt  
Electrical  
devesh@Dev:~$ awk 'NR=="5",NR=="7" {print $0}' dev2.txt  
Electrical  
Mechanical  
Civil  
devesh@Dev:~$ awk 'BEGIN {for(i=0;i<=5;i++) print i;}'  
0  
1  
2
```



```
devesh@Dev: ~  
devesh@Dev:~$ awk 'BEGIN {for(i=0;i<=5;i++) print i;}'  
0  
1  
2  
3  
4  
5  
devesh@Dev:~$ awk 'BEGIN {while(i<5){i++; print "Hello";}}'  
Hello  
Hello  
Hello  
Hello  
Hello  
devesh@Dev:~$ cat dev2.txt  
Devesh  
Suraj  
Cdac  
Engineering  
Electrical  
Mechanical  
Civil  
It  
Cs  
EnTC  
Branch  
devesh@Dev:~$ cut -c1 dev2.txt
```



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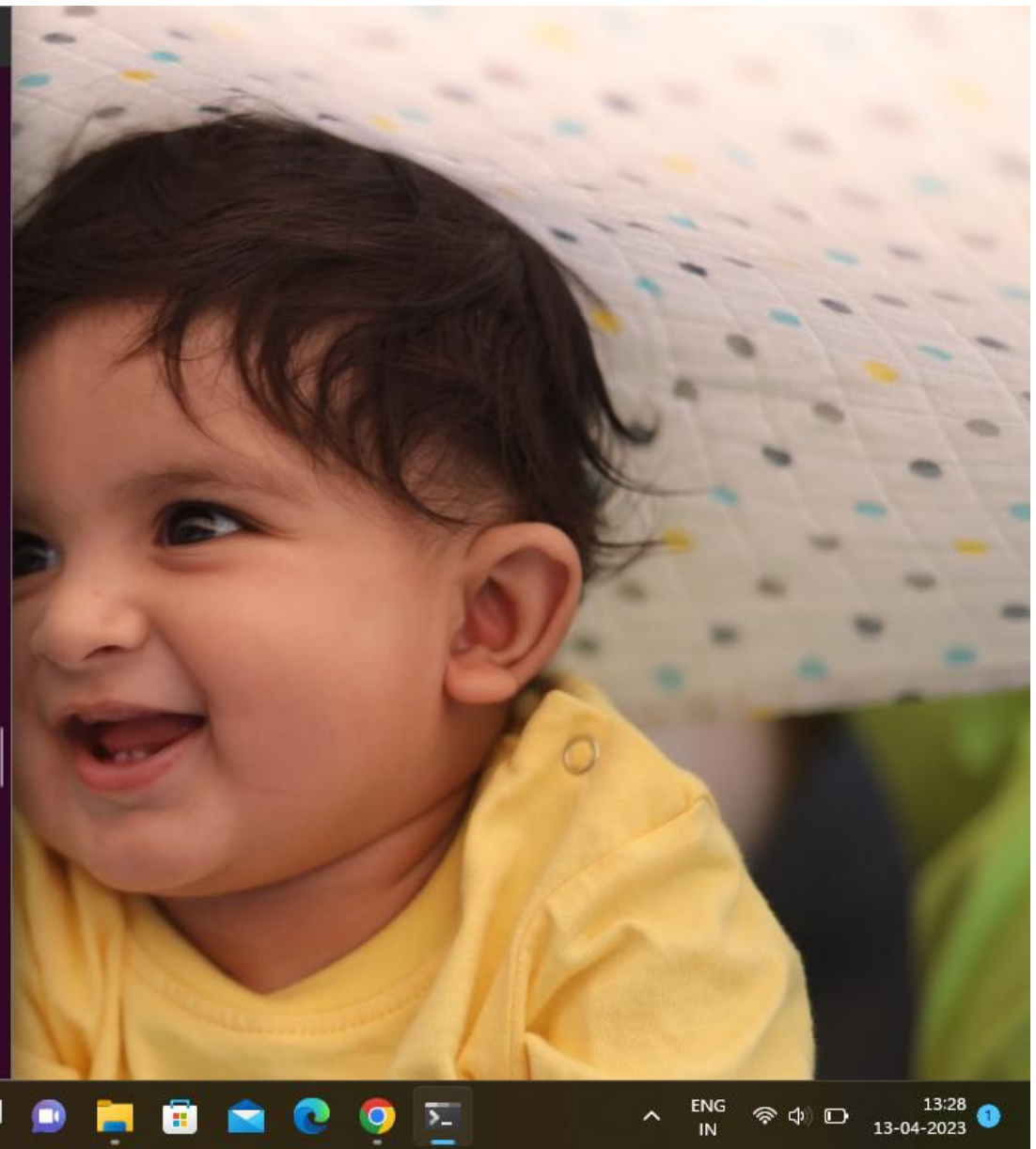


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```
devesh@Dev: ~  
devesh@Dev:~$ cut -c1 dev2.txt  
D  
S  
C  
E  
E  
M  
C  
I  
C  
E  
B  
  
devesh@Dev:~$ cut -c1,3 dev2.txt  
Dv  
Sr  
Ca  
Eg  
Ee  
Mc  
Cv  
I  
C  
ET  
Ba  
  
devesh@Dev:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on
```



```
devesh@Dev: ~  
devesh@Dev:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
none            905M  4.0K  905M   1% /mnt/wsl  
none           151G   68G   84G  45% /usr/lib/wsl/drivers  
none            905M    0  905M   0% /usr/lib/wsl/lib  
/dev/sdc       1007G  1.1G  955G   1% /  
none            905M  4.7M  900M   1% /mnt/wslg  
rootfs          901M  1.9M  900M   1% /init  
none            905M    0  905M   0% /run  
none            905M    0  905M   0% /run/lock  
none            905M    0  905M   0% /run/shm  
none            905M    0  905M   0% /run/user  
none            905M   68K  905M   1% /mnt/wslg/versions.tx  
t  
none            905M   68K  905M   1% /mnt/wslg/doc  
drvfs           151G   68G   84G  45% /mnt/c  
drvfs           261G  42G  219G  16% /mnt/d  
drvfs           261G  29G  232G  11% /mnt/e  
drvfs           261G  83G  178G  32% /mnt/f  
devesh@Dev:~$ df -h -BK  
Filesystem      1K-blocks      Used    Available Use% Mount  
ed on  
none            925788K         4K     925784K   1% /mnt/  
wsl  
none           157955124K 70388252K   87566872K  45% /usr/  
lib/wsl/drivers  
none            925788K          0K     925788K   0% /usr/
```





```
devesh@Dev: ~  
devesh@Dev:~$ df -h -BK  
Filesystem      1K-blocks      Used    Available Use% Mount  
ed on  
none            925788K         4K       925784K    1% /mnt/  
wsl  
none           157955124K 70388252K   87566872K  45% /usr/  
lib/wsl/drivers  
none            925788K          0K       925788K    0% /usr/  
lib/wsl/lib  
/dev/sdc        1055762868K 1053112K 1001006284K  1% /  
none            925788K       4724K     921064K    1% /mnt/  
wslg  
rootfs          922544K       1936K     920608K    1% /init  
none            925788K          0K       925788K    0% /run  
none            925788K          0K       925788K    0% /run/  
lock  
none            925788K          0K       925788K    0% /run/  
shm  
none            925788K          0K       925788K    0% /run/  
user  
none            925788K        68K     925720K    1% /mnt/  
wslg/versions.txt  
none            925788K        68K     925720K    1% /mnt/  
wslg/doc  
drvfs           157955124K 70388252K   87566872K  45% /mnt/  
c  
drvfs           272679932K 43143272K  229536660K  16% /mnt/  
d
```



```
devesh@Dev: ~  
f  
devesh@Dev:~$ du-h  
du-h: command not found  
devesh@Dev:~$ du -h  
12K      ./dir1  
4.0K     ./cdac  
4.0K     ./dir4  
4.0K     ../config/procps  
8.0K     ../config  
20K      ./dir3/new  
24K      ./dir3  
4.0K     ./dir2  
120K     .  
devesh@Dev:~$ sudo demidecode -t bios  
[sudo] password for devesh:  
sudo: demidecode: command not found  
devesh@Dev:~$ groupadd Friends  
groupadd: Permission denied.  
groupadd: cannot lock /etc/group; try again later.  
devesh@Dev:~$ lsblk -a  
NAME MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS  
ram0   1:0    0   64M  0 disk  
ram1   1:1    0   64M  0 disk  
ram2   1:2    0   64M  0 disk  
ram3   1:3    0   64M  0 disk  
ram4   1:4    0   64M  0 disk  
ram5   1:5    0   64M  0 disk  
ram6   1:6    0   64M  0 disk
```





```
devesh@Dev: ~  
ram7 1:7 0 64M 0 disk  
ram8 1:8 0 64M 0 disk  
ram9 1:9 0 64M 0 disk  
ram10 1:10 0 64M 0 disk  
ram11 1:11 0 64M 0 disk  
ram12 1:12 0 64M 0 disk  
ram13 1:13 0 64M 0 disk  
ram14 1:14 0 64M 0 disk  
ram15 1:15 0 64M 0 disk  
loop0 7:0 0 0B 0 loop  
loop1 7:1 0 0B 0 loop  
loop2 7:2 0 0B 0 loop  
loop3 7:3 0 0B 0 loop  
loop4 7:4 0 0B 0 loop  
loop5 7:5 0 0B 0 loop  
loop6 7:6 0 0B 0 loop  
loop7 7:7 0 0B 0 loop  
sda 8:0 0 363.3M 1 disk  
sdb 8:16 0 1G 0 disk [SWAP]  
sdc 8:32 0 1T 0 disk /mnt/wslg/distro/  
/  
devesh@Dev:~$ lsblk -b  
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS  
sda 8:0 0 380968960 1 disk  
sdb 8:16 0 1073745920 0 disk [SWAP]  
sdc 8:32 0 1099511627776 0 disk /mnt/wslg/distro/  
/  
devesh@Dev:~$
```

