



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/
```



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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:~$ 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
```

```
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:~$ 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:~$ 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
```



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Search



```
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}'
```



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Search




```
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:~$ 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



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Search



```
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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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
------------	------	------	-------	------	------------



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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.txt
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%	Mounted on
none	925788K	4K	925784K	1%	/mnt/wsl
none	157955124K	70388252K	87566872K	45%	/usr/lib/wsl/drivers
none	925788K	0K	925788K	0%	/usr/



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Search




```
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					



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Q Search



```
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:~$
```

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