

To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.

```
meghana10@meghana10-VirtualBox:~$ pwd
```

```
/home/meghana10
```

```
meghana10@meghana10-VirtualBox:~$ mkdir Assignment1
```

```
meghana10@meghana10-VirtualBox:~$ mkdir new
```

```
mkdir: cannot create directory 'new': File exists
```

```
meghana10@meghana10-VirtualBox:~$ rmdir new
```

```
meghana10@meghana10-VirtualBox:~$ ls
```

```
Assignment1  Assingment1  Documents  Music  Pictures  snap  Videos  
ASSIGNMENT1  Desktop      Downloads  new.txt  Public    Templates
```

```
meghana10@meghana10-VirtualBox:~$ cd home
```

```
bash: cd: home: No such file or directory
```

```
meghana10@meghana10-VirtualBox:~$ cd MK
```

```
bash: cd: MK: No such file or directory
```

```
meghana10@meghana10-VirtualBox:~$ cd Assignment1
```

```
meghana10@meghana10-VirtualBox:~/Assignment1$ who
```

```
meghana10 :0          2023-01-12 21:59 (:0)
```

```
meghana10@meghana10-VirtualBox:~/Assignment1$ pwd
```

```
/home/meghana10/Assignment1
```

```
meghana10@meghana10-VirtualBox:~/Assignment1$ cd
```

```
meghana10@meghana10-VirtualBox:~$ pwd
```

```
/home/meghana10
```

```
meghana10@meghana10-VirtualBox:~$ touch new.txt
```

```
meghana10@meghana10-VirtualBox:~$ cat > new.txt
```

```
This is Meghana
```

```
meghana10@meghana10-VirtualBox:~$ cat > new.txt
```

```
This is Meghanameghana10@meghana10-VirtualBox:~$ cat new.txt
```



```
meghana10@meghana10-VirtualBox:~$ cat > new.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ cat new.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ rm new.txt
meghana10@meghana10-VirtualBox:~$ cat > new.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ cp new.txt okay.txt
meghana10@meghana10-VirtualBox:~$ cat okay.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ mv new.txt hello.txt
meghana10@meghana10-VirtualBox:~$ cat hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ rename 's/hello.txt/hi.txt/'
```

Command 'rename' not found, but can be installed with:

```
sudo apt install rename
```

```
meghana10@meghana10-VirtualBox:~$ head hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ tail hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ head hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ tail hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ tac hello.txt
This is Meghana
```



```
This is Meghana
meghana10@meghana10-VirtualBox:~$ tail hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ tac hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ more hello.txt
This is Meghana
meghana10@meghana10-VirtualBox:~$ less hello.txt

[1]+  Stopped                  less hello.txt
meghana10@meghana10-VirtualBox:~$ id
uid=1000(meghana10) gid=1000(meghana10) groups=1000(meghana10),4(adm),24(cdrom),
,27(sudo),30(dip),46(plugdev),120(lpadmin),132(lxd),133(sambashare)
meghana10@meghana10-VirtualBox:~$ su Meghana
su: user Meghana does not exist
meghana10@meghana10-VirtualBox:~$ useradd MEGHANA-KIIT
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
meghana10@meghana10-VirtualBox:~$ passwd
Changing password for meghana10.
Current password:
passwd: Authentication token manipulation error
passwd: password unchanged
meghana10@meghana10-VirtualBox:~$ logout
bash: logout: not login shell: use `exit`
meghana10@meghana10-VirtualBox:~$ groupadd Developer
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
meghana10@meghana10-VirtualBox:~$ cat > marks.txt
```

groupadd: cannot lock /etc/group; try again later.

**meghana10@meghana10-VirtualBox:~\$** cat > marks.txt

Meghana-91

Di-93

**meghana10@meghana10-VirtualBox:~\$** cut -d -f2 marks.txt

cut: the delimiter must be a single character

Try 'cut --help' for more information.

**meghana10@meghana10-VirtualBox:~\$** cut -d- -f2 marks.txt

91

93

**meghana10@meghana10-VirtualBox:~\$** grep 6

cat.marks.txt | grep 6

cat.marks.txt | grep 6

**meghana10@meghana10-VirtualBox:~\$** comm hello.txt okay.txt

This is Meghana

**meghana10@meghana10-VirtualBox:~\$** cat marks.txt | tee new1.txt | cat

Meghana-91

Di-93

**meghana10@meghana10-VirtualBox:~\$** new1.txt

new1.txt: command not found

**meghana10@meghana10-VirtualBox:~\$** cat new1.txt

Meghana-91

Di-93

**meghana10@meghana10-VirtualBox:~\$** sort marks.txt

Di-93

Meghana-91

**meghana10@meghana10-VirtualBox:~\$** sort marks.txt | uniq

Di-93

Meghana-91



```
meghana10@meghana10-VirtualBox:~$ new1.txt
new1.txt: command not found
meghana10@meghana10-VirtualBox:~$ cat new1.txt
Meghana-91
Di-93
meghana10@meghana10-VirtualBox:~$ sort marks.txt
Di-93
Meghana-91
meghana10@meghana10-VirtualBox:~$ sort marks.txt | uniq
Di-93
Meghana-91
meghana10@meghana10-VirtualBox:~$ wc marks.txt
  2  2 17 marks.txt
meghana10@meghana10-VirtualBox:~$ od -b marks.txt
0000000 115 145 147 150 141 156 141 055 071 061 012 104 151 055 071 063
0000020 012
0000021
meghana10@meghana10-VirtualBox:~$ od -txt marks.txt
od: invalid character 't' in type string 'xt'
meghana10@meghana10-VirtualBox:~$ od -c marks.txt
0000000  M   e   g   h   a   n   a   -   9   1   \n  D   i   -   9   3
0000020  \n
0000021
meghana10@meghana10-VirtualBox:~$ od -c marks.txt
0000000  M   e   g   h   a   n   a   -   9   1   \n  D   i   -   9   3
0000020  \n
0000021
meghana10@meghana10-VirtualBox:~$ gzip hello.txt
meghana10@meghana10-VirtualBox:~$ gunzip hello.txt
```

```
meghana10@meghana10-VirtualBox:~$ gzip hello.txt
meghana10@meghana10-VirtualBox:~$ gunzip hello.txt
meghana10@meghana10-VirtualBox:~$ find marks.txt
marks.txt
meghana10@meghana10-VirtualBox:~$ locate marks.txt
```

Command 'locate' not found, but can be installed with:

```
sudo apt install mlocate
```

```
meghana10@meghana10-VirtualBox:~$ who
meghana10 :0          2023-01-12 21:59 (:0)
meghana10@meghana10-VirtualBox:~$ date
Thursday 12 January 2023 10:19:48 PM IST
meghana10@meghana10-VirtualBox:~$ calc
```

Command 'calc' not found, but can be installed with:

```
sudo apt install calc
```

```
meghana10@meghana10-VirtualBox:~$ cal<
bash: syntax error near unexpected token `newline'
meghana10@meghana10-VirtualBox:~$ cal
```

```
    January 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
```



```
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

```
meghana10@meghana10-VirtualBox:~$ time
```

```
real    0m0.000s
user    0m0.000s
sys     0m0.000s
```

```
meghana10@meghana10-VirtualBox:~$ zcat hello.txt
```

```
gzip: hello.txt: not in gzip format
```

```
meghana10@meghana10-VirtualBox:~$ gzip hello.txt
```

```
meghana10@meghana10-VirtualBox:~$ zcat hello.txt
```

```
This is Meghana
```

```
meghana10@meghana10-VirtualBox:~$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	4162624	0	4162624	0%	/dev
tmpfs	839740	1404	838336	1%	/run
/dev/sda5	21046460	8538052	11413960	43%	/
tmpfs	4198696	0	4198696	0%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock
tmpfs	4198696	0	4198696	0%	/sys/fs/cgroup
/dev/loop0	128	128	0	100%	/snap/bare/5
/dev/loop2	56960	56960	0	100%	/snap/core18/2667
/dev/loop3	224256	224256	0	100%	/snap/gnome-3-34-1804/77
/dev/loop1	56832	56832	0	100%	/snap/core18/2128
/dev/loop4	64896	64896	0	100%	/snap/core20/1778
/dev/loop5	354688	354688	0	100%	/snap/gnome-3-38-2004/119



```
/dev/loop4      64896    64896          0 100% /snap/core20/1778
/dev/loop5      354688   354688          0 100% /snap/gnome-3-38-2004/119
/dev/loop10     51072    51072          0 100% /snap/snapd/17950
/dev/loop6      224256   224256          0 100% /snap/gnome-3-34-1804/72
/dev/loop7      93952    93952          0 100% /snap/gtk-common-themes/1535
/dev/loop8      66688    66688          0 100% /snap/gtk-common-themes/1515
/dev/loop9      52224    52224          0 100% /snap/snap-store/547
/dev/sda1       523248      4    523244      1% /boot/efi
tmpfs           839736     32    839704      1% /run/user/1000
```

```
meghana10@meghana10-VirtualBox:~$ zcat hello.txt
```

This is Meghana

```
meghana10@meghana10-VirtualBox:~$ gzip helllo.txt
```

gzip: helllo.txt: No such file or directory

```
meghana10@meghana10-VirtualBox:~$ zcat hello.txt
```

This is Meghana

```
meghana10@meghana10-VirtualBox:~$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	4162624	0	4162624	0%	/dev
tmpfs	839740	1400	838340	1%	/run
/dev/sda5	21046460	8538052	11413960	43%	/
tmpfs	4198696	0	4198696	0%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock
tmpfs	4198696	0	4198696	0%	/sys/fs/cgroup
/dev/loop0	128	128	0	100%	/snap/bare/5
/dev/loop2	56960	56960	0	100%	/snap/core18/2667
/dev/loop3	224256	224256	0	100%	/snap/gnome-3-34-1804/77
/dev/loop1	56832	56832	0	100%	/snap/core18/2128
/dev/loop4	64896	64896	0	100%	/snap/core20/1778
/dev/loop5	354688	354688	0	100%	/snap/gnome-3-38-2004/119



```
/dev/loop9          52224    52224          0 100% /snap/snap-store/547
/dev/sda1            523248      4    523244      1% /boot/efi
tmpfs                839736     32    839704      1% /run/user/1000
```

**meghana10@meghana10-VirtualBox:~\$ ip**

Usage: ip [ OPTIONS ] OBJECT { COMMAND | help }

ip [ -force ] -batch filename

where OBJECT := { link | address | addrlabel | route | rule | neigh | ntable |  
tunnel | tuntap | maddress | mroute | mrule | monitor | xfrm  
|  
netns | l2tp | fou | macsec | tcp\_metrics | token | netconf  
| ila |

vrf | sr | nexthop }

OPTIONS := { -V[ersion] | -s[tatistics] | -d[etails] | -r[esolve] |  
-h[uman-readable] | -iec | -j[son] | -p[retty] |  
-f[amily] { inet | inet6 | mpls | bridge | link } |  
-4 | -6 | -I | -D | -M | -B | -O |  
-l[oops] { maximum-addr-flush-attempts } | -br[ief] |  
-o[neline] | -t[imestamp] | -ts[hort] | -b[atch] [filename]  
|  
-rc[vbuf] [size] | -n[etns] name | -N[umeric] | -a[ll] |  
-c[olor]}

**meghana10@meghana10-VirtualBox:~\$ ssh**

usage: ssh [-46AaCfGgKkMMNnqsTtVvXxYy] [-B bind\_interface]  
[-b bind\_address] [-c cipher\_spec] [-D [bind\_address:]port]  
[-E log\_file] [-e escape\_char] [-F configfile] [-I pkcs11]  
[-i identity\_file] [-J [user@]host[:port]] [-L address]  
[-l login\_name] [-m mac\_spec] [-O ctl\_cmd] [-o option] [-p port]  
[-Q query\_option] [-R address] [-S ctl\_path] [-W host:port]  
[-w local\_tun[:remote\_tun]] destination [command]

```
[-w local_tun[:remote_tun]] destination [command]
```

```
meghana10@meghana10-VirtualBox:~$ ping github.com
```

```
PING github.com (20.207.73.82) 56(84) bytes of data.
```

```
^Z
```

```
[2]+  Stopped                  ping github.com
```

```
meghana10@meghana10-VirtualBox:~$ exit
```

```
exit
```

```
There are stopped jobs.
```

```
meghana10@meghana10-VirtualBox:~$
```