

```
ubuntu@ubuntu:~/Documents/assignment-1$ ip
Usage: ip [ OPTIONS ] OBJECT { COMMAND | help }
       ip [ -force ] -batch filename
where  OBJECT := { address | addrlabel | fou | help | ila | ioam | l2tp | link
|
               macsec | maddress | monitor | mptcp | mroute | mrule |
neighbor | neighbour | netconf | netns | nexthop | ntable |
ntbl | route | rule | sr | tap | tcpmetrics |
token | tunnel | tuntap | vrf | xfrm }
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 | -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]}
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ 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 [argument ...]]
```

```
ubuntu@ubuntu:~/Documents/assignment-1$
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ time
```

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

```
ubuntu@ubuntu:~/Documents/assignment-1$ zcat hello.txt
```

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

```
ubuntu@ubuntu:~/Documents/assignment-1$ gzip hello.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ zcat hello.txt
```

```
HI I'm Diyanshi Sharma
```

```
I am a KIITian
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ df
```

| Filesystem | 1K-blocks | Used    | Available | Use% | Mounted on    |
|------------|-----------|---------|-----------|------|---------------|
| tmpfs      | 888552    | 1580    | 886972    | 1%   | /run          |
| /dev/sr0   | 3737140   | 3737140 | 0         | 100% | /cdrom        |
| /cow       | 4442752   | 223744  | 4219008   | 6%   | /             |
| tmpfs      | 4442752   | 0       | 4442752   | 0%   | /dev/shm      |
| tmpfs      | 5120      | 8       | 5112      | 1%   | /run/lock     |
| tmpfs      | 4442752   | 500     | 4442252   | 1%   | /tmp          |
| tmpfs      | 888548    | 140     | 888408    | 1%   | /run/user/999 |

```
ubuntu@ubuntu:~/Documents/assignment-1$ ip
```

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

```
       ip [ -force ] -batch filename
```

```
where  OBJECT := { address | addrlabel | fou | help | ila | ioam | l2tp | link
```

```
|
```

0000101

ubuntu@ubuntu:~/Documents/assignment-1\$ gzip hello.txt

ubuntu@ubuntu:~/Documents/assignment-1\$ gunzip hello.txt

ubuntu@ubuntu:~/Documents/assignment-1\$ find marks.txt

marks.txt

ubuntu@ubuntu:~/Documents/assignment-1\$ locate marks.txt

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

sudo apt install plocate

ubuntu@ubuntu:~/Documents/assignment-1\$ who

ubuntu :0 2023-01-12 16:01 (:0)

ubuntu@ubuntu:~/Documents/assignment-1\$ date

Thu Jan 12 05:44:09 PM UTC 2023

ubuntu@ubuntu:~/Documents/assignment-1\$ calc

Command 'calc' not found, did you mean:

command 'kcalc' from snap kcalc (22.08.3)

command 'walc' from snap walc (0.2.1)

command 'xcalc' from deb x11-apps (7.7+8build2)

See 'snap info <snapname>' for additional versions.

ubuntu@ubuntu:~/Documents/assignment-1\$ cal

Command 'cal' not found, did you mean:

command 'fcal' from snap fcal (2.4.2)

command 'col' from deb bsdxtrautils (2.37.2-4ubuntu3)

command 'cat' from deb coreutils (8.32-4.1ubuntu1)

command 'cxl' from deb ndctl (72.1-1)

See 'snap info <snapname>' for additional versions.

ubuntu@ubuntu:~/Documents/assignment-1\$ who

ubuntu :0 2023-01-12 16:01 (:0)

ubuntu@ubuntu:~/Documents/assignment-1\$ date

Thu Jan 12 05:44:33 PM UTC 2023

0000101

ubuntu@ubuntu:~/Documents/assignment-1\$ gzip hello.txt

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ubuntu@ubuntu:~/Documents/assignment-1\$ find marks.txt

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Command 'calc' not found, did you mean:

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command 'xcalc' from deb x11-apps (7.7+8build2)

See 'snap info <snapname>' for additional versions.

ubuntu@ubuntu:~/Documents/assignment-1\$ cal

Command 'cal' not found, did you mean:

command 'fcalf' from snap fcalf (2.4.2)

command 'col' from deb bsdxtrautils (2.37.2-4ubuntu3)

command 'cat' from deb coreutils (8.32-4.1ubuntu1)

command 'cxl' from deb ndctl (72.1-1)

See 'snap info <snapname>' for additional versions.

ubuntu@ubuntu:~/Documents/assignment-1\$ who

ubuntu :0 2023-01-12 16:01 (:0)

ubuntu@ubuntu:~/Documents/assignment-1\$ date

Thu Jan 12 05:44:33 PM UTC 2023

```
0000101
ubuntu@ubuntu:~/Documents/assignment-1$ od -tx1 marks.txt
00000000 64 69 79 61 6e 73 68 69 2d 39 30 0a 6d 65 67 68
00000020 61 6e 61 2d 36 37 0a 61 64 69 74 69 2d 35 36 0a
00000040 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a
*
0000100 0a
0000101
ubuntu@ubuntu:~/Documents/assignment-1$ od -c marks.txt
00000000  d   i   y   a   n   s   h   i   -   9   0   \n   m   e   g   h
00000020  a   n   a   -   6   7   \n   a   d   i   t   i   -   5   6   \n
00000040  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n
*
0000100  \n
0000101
ubuntu@ubuntu:~/Documents/assignment-1$ od -c marks.txt
00000000  d   i   y   a   n   s   h   i   -   9   0   \n   m   e   g   h
00000020  a   n   a   -   6   7   \n   a   d   i   t   i   -   5   6   \n
00000040  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n
*
0000100  \n
0000101
ubuntu@ubuntu:~/Documents/assignment-1$ gzip hello.txt
ubuntu@ubuntu:~/Documents/assignment-1$ gunzip hello.txt
ubuntu@ubuntu:~/Documents/assignment-1$ find marks.txt
marks.txt
ubuntu@ubuntu:~/Documents/assignment-1$ locate marks.txt
Command 'locate' not found, but can be installed with:
sudo apt install plocate
```

aditi-56

diyanshi-90

meghana-67

```
ubuntu@ubuntu:~/Documents/assignment-1$ sort marks.txt | uniq
```

aditi-56

diyanshi-90

meghana-67

```
ubuntu@ubuntu:~/Documents/assignment-1$ wc marks.txt
```

```
36  3 65 marks.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ od -b marks.txt
```

```
00000000 144 151 171 141 156 163 150 151 055 071 060 012 155 145 147 150
```

```
00000020 141 156 141 055 066 067 012 141 144 151 164 151 055 065 066 012
```

```
00000040 012 012 012 012 012 012 012 012 012 012 012 012 012 012 012 012
```

\*

```
0000100 012
```

```
0000101
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ od -tx1 marks.txt
```

```
00000000 64 69 79 61 6e 73 68 69 2d 39 30 0a 6d 65 67 68
```

```
00000020 61 6e 61 2d 36 37 0a 61 64 69 74 69 2d 35 36 0a
```

```
00000040 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a
```

\*

```
0000100 0a
```

```
0000101
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ od -c marks.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ sort marks.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat marks.txt | tr 'ein' 'EIN'
```

```
dIyaNshI-90
```

```
mEghaNn-67
```

```
adItI-56
```



```
ubuntu@ubuntu:~/Documents/assignment-1$ newl.txt
```

```
newl.txt: command not found
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat newl.txt
```

```
diyanshi-90
```

```
meghana-67
```

```
aditi-56
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ grep 6
```

```
cat marks.txt|grep 6
```

```
cat marks.txt|grep 6
```

```
^Z
```

```
[9]+  Stopped                  grep --color=auto 6
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ comm hello.txt okay.txt
```

```
      Hi , I'm Diyanshi Sharma
```

```
comm: file 2 is not in sorted order
```

```
HI I'm Diyanshi Sharma
```

```
I am a KIITian
```

```
comm: input is not in sorted order
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat marks.txt | tee newl.txt | cat
```

```
diyanshi-90
```

```
meghana-67
```

```
aditi-56
```

```
ubuntu@ubuntu: ~/Documents/assignment-1$ cut -d- -f2 marks.txt
```

```
90
```

```
67
```

```
56
```

```
I am a KIITian
comm: input is not in sorted order
ubuntu@ubuntu:~/Documents/assignment-1$ com hello.txt okay.txt
Command 'com' not found, did you mean:
  command 'crm' from deb crmsh (4.3.1-1ubuntu3)
  command 'comm' from deb coreutils (8.32-4.1ubuntu1)
  command 'col' from deb bsdextrautils (2.37.2-4ubuntu3)
Try: sudo apt install <deb name>
ubuntu@ubuntu:~/Documents/assignment-1$ comm hello.txt okay.txt
      Hi , I'm Diyanshi Sharma
comm: file 2 is not in sorted order
```

```
HI I'm Diyanshi Sharma
I am a KIITian
comm: input is not in sorted order
ubuntu@ubuntu:~/Documents/assignment-1$ groupadd developer
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
ubuntu@ubuntu:~/Documents/assignment-1$ cat > marks.txt
diyanshi-90
meghana-67
aditi-56
```

```
passwd: password updated successfully
ubuntu@ubuntu:~/Documents/assignment-1$ logout
bash: logout: not login shell: use `exit`
ubuntu@ubuntu:~/Documents/assignment-1$ groupadd Developer
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
ubuntu@ubuntu:~/Documents/assignment-1$ cat > marks.txt
Diyanshi - 90
Meghana - 80
Aditi - 79

^Z
[6]+  Stopped                  cat > marks.txt
ubuntu@ubuntu:~/Documents/assignment-1$
ubuntu@ubuntu:~/Documents/assignment-1$ cat > marks.txt
Diyanshi-89
meghana - 67
aditi - 78

^C
ubuntu@ubuntu:~/Documents/assignment-1$ cp new.txt marks.txt
ubuntu@ubuntu:~/Documents/assignment-1$ cat marks.txt
HI I'm Diyanshi Sharma
I am a KIITian
ubuntu@ubuntu:~/Documents/assignment-1$ grep 6
cat marks.txt | grep 6
cat marks.txt | grep 6
```

I am a KIITian

HI I'm Diyanshi Sharma

```
ubuntu@ubuntu:~/Documents/assignment-1$ more hello.txt
```

HI I'm Diyanshi Sharma

I am a KIITian

```
ubuntu@ubuntu:~/Documents/assignment-1$ less hello.txt
```

```
[5]+  Stopped                  less hello.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ id
```

```
uid=999(ubuntu) gid=999(ubuntu) groups=999(ubuntu),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),122(lpadmin),134(lxd),135(sambashare)
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ user add -Diyanshi
```

Command 'user' not found, did you mean:

command 'users' from deb coreutils (8.32-4.1ubuntu1)

command 'fuser' from deb psmisc (23.4-2build3)

Try: sudo apt install <deb name>

```
ubuntu@ubuntu:~/Documents/assignment-1$ useradd Diyanshi
```

useradd: Permission denied.

useradd: cannot lock /etc/passwd; try again later.

```
ubuntu@ubuntu:~/Documents/assignment-1$ passwd
```

New password:

BAD PASSWORD: The password is shorter than 8 characters

New password:

Retype new password:

passwd: password updated successfully

```
ubuntu@ubuntu:~/Documents/assignment-1$ ls -la
```

```
[3]+ Stopped cat > new.txt
ubuntu@ubuntu:~/Documents/assignment-1$ rm new.txt
ubuntu@ubuntu:~/Documents/assignment-1$ cat > new.txt
HI I'm Diyanishi Sharma
I am a KIITian
^Z

[4]+ Stopped cat > new.txt
ubuntu@ubuntu:~/Documents/assignment-1$
ubuntu@ubuntu:~/Documents/assignment-1$ cp new.txt
cp: missing destination file operand after 'new.txt'
Try 'cp --help' for more information.
ubuntu@ubuntu:~/Documents/assignment-1$ cp new.txt hello.txt
ubuntu@ubuntu:~/Documents/assignment-1$ cat okay.txt
Hi , I'm Diyanishi Sharma

ubuntu@ubuntu:~/Documents/assignment-1$ head hello.txt
HI I'm Diyanishi Sharma
I am a KIITian
ubuntu@ubuntu:~/Documents/assignment-1$ tail hello.txt
HI I'm Diyanishi Sharma
I am a KIITian
ubuntu@ubuntu:~/Documents/assignment-1$ tac hello.txt
I am a KIITian
HI I'm Diyanishi Sharma
ubuntu@ubuntu:~/Documents/assignment-1$ more hello.txt
HI I'm Diyanishi Sharma
I am a KIITian
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat > new.txt
```

```
Hi i;m Diyanshi Sharma
```

```
I am a KIITian
```

```
cat > new.txt
```

```
^Z
```

```
[1]+  Stopped                  cat > new.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ rm new.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat>new.txt
```

```
Hi , I'm Diyanshi Sharma
```

```
^Z
```

```
[2]+  Stopped                  cat > new.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ mv new.txt okay.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat hello.txt
```

```
cat: hello.txt: No such file or directory
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ sudo install rename
```

```
install: missing destination file operand after 'rename'
```

```
Try 'install --help' for more information.
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ pwd
```

```
/home/ubuntu/Documents/assignment-1
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ touch new.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat > new.txt
```

```
Hi I'm Diyanshi sharma
```

```
I am a KIITian
```



```
ubuntu@ubuntu:~$ ls
assignment-1  Documents  Music      Public  Templates
Desktop      Downloads  Pictures   snap    Videos
ubuntu@ubuntu:~$ cd Desktop/
ubuntu@ubuntu:~/Desktop$ ls
ubiquity.desktop
ubuntu@ubuntu:~/Desktop$ cd ..
ubuntu@ubuntu:~$ ls
assignment-1  Documents  Music      Public  Templates
Desktop      Downloads  Pictures   snap    Videos
ubuntu@ubuntu:~$ cd Documents/
ubuntu@ubuntu:~/Documents$ ls
assignment-1
ubuntu@ubuntu:~/Documents$ cd assignment-1/
ubuntu@ubuntu:~/Documents/assignment-1$ touch new.txt
ubuntu@ubuntu:~/Documents/assignment-1$ cat > new.txt
HI i;m Diyanshi Sharma
I am a KIITian
```

```
cat > new.txt
```

```
^Z
```

```
[1]+  Stopped
```

```
cat > new.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ rm new.txt
```

```
ubuntu@ubuntu:~/Documents/assignment-1$ cat>new.txt
```

```
Hi , I'm Diyanshi Sharma
```