

```

srishtirupa@linux:~$ pwd
/home/srishtirupa
srishtirupa@linux:~$ mkdir new_directory
srishtirupa@linux:~$ rmdir new_directory
srishtirupa@linux:~$ ls
BigData      Desktop      msg.txt      Public      T1.txt      test3
class.txt     Documents    Music        secondDir,hello Templates    Videos
copied13.txt  Downloads    new.txt      shreya1     test12.txt
demo1         igTest       Pictures     snap        test13.txt

srishtirupa@linux:~$ cd dekstop
bash: cd: dekstop: No such file or directory
srishtirupa@linux:~$ cd Dekstop
bash: cd: Dekstop: No such file or directory
srishtirupa@linux:~$ cd Desktop
srishtirupa@linux:~/Desktop$ ztouch Demo.txt
Command 'ztouch' not found, did you mean:
  command 'ktouch' from snap ktouch (22.08.1)
  command 'touch' from deb coreutils (8.32-4.1ubuntu1)
  command 'ktouch' from deb ktouch (4:21.12.3-1ubuntu1)
See 'snap info <snapname>' for additional versions.
srishtirupa@linux:~/Desktop$ touch Demo.txt
srishtirupa@linux:~/Desktop$ touch Demo1.txt Demo2.txt
srishtirupa@linux:~/Desktop$ ls
Demo1.txt Demo2.txt Demo.txt
srishtirupa@linux:~/Desktop$ cat > Demo.txt
This is a text file
^Z
[1]+  Stopped                  cat > Demo.txt
srishtirupa@linux:~/Desktop$ cat Demo.txt
This is a text file
srishtirupa@linux:~/Desktop$ rm Demo.txt
srishtirupa@linux:~/Desktop$ rm Demo1.txt Demo2.txt
srishtirupa@linux:~/Desktop$ ls
srishtirupa@linux:~/Desktop$ cd ..
srishtirupa@linux:~$ ls
BigData      Desktop      msg.txt      Public      T1.txt      test3
class.txt     Documents    Music        secondDir,hello Templates    Videos
copied13.txt  Downloads    new.txt      shreya1     test12.txt
demo1         igTest       Pictures     snap        test13.txt

srishtirupa@linux:~$ cat > demo1.txt
hello this is kalii..
^Z
[2]+  Stopped                  cat > demo1.txt
srishtirupa@linux:~$ cat demo1.txt
hello this is kalii..
srishtirupa@linux:~$ cp demo1.txt demo2.txt
srishtirupa@linux:~$ cp demo2.txt Documents
srishtirupa@linux:~$ ls
BigData      demo1.txt    Downloads    new.txt      shreya1     test12.txt

```

BigData	demo12.txt	Downloads	Pictures	snap	test13.txt
class.txt	demo2.txt	igTest	Public	T1.txt	test3
copied13.txt	Desktop	msg.txt	secondDir,hello	Templates	Videos
demo1	Documents	Music	shreya1	test12.txt	

```
srishtirupa@linux:~$ cat > Demo.txt
```

```
11
```

```
2
```

```
3
```

```
4
```

```
5
```

```
6
```

```
7
```

```
8
```

```
9
```

```
10
```

```
11
```

```
^Z
```

```
[3]+  Stopped                  cat > Demo.txt
```

```
srishtirupa@linux:~$ head Demo.txt
```

```
11
```

```
2
```

```
3
```

```
4
```

```
5
```

```
6
```

```
7
```

```
8
```

```
9
```

```
10
```

```
srishtirupa@linux:~$ cat Demo.txt
```

```
11
```

```
2
```

```
3
```

```
4
```

```
5
```

```
6
```

```
7
```

```
8
```

```
9
```

```
10
```

```
11
```

```
srishtirupa@linux:~$ tac Demo.txt
```

```
11
```

```
10
```

```
9
```

```
8
```

```
7
```

```
6
```

```
5
```

```
srishtirupa@linux:~$ cat Demo.txt
```

```
11
2
3
4
5
6
7
8
9
10
11
```

```
srishtirupa@linux:~$ tac Demo.txt
```

```
11
10
9
8
7
6
5
4
3
2
11
```

```
srishtirupa@linux:~$ head -n 4 Demo.txt
```

```
11
2
3
4
```

```
srishtirupa@linux:~$ tail Demo.txt
```

```
2
3
4
5
6
7
8
9
10
11
```

```
srishtirupa@linux:~$ tail -n 4 Demo.txt
```

```
8
9
10
11
```

```
srishtirupa@linux:~$ more DEmo.txt
```

```
more: cannot open DEmo.txt: No such file or directory
```

```
srishtirupa@linux:~$ tail Demo.txt
2
3
4
5
6
7
8
9
10
11
srishtirupa@linux:~$ tail -n 4 Demo.txt
8
9
10
11
srishtirupa@linux:~$ more DEmo.txt
more: cannot open DEmo.txt: No such file or directory
srishtirupa@linux:~$ more Demo.txt
11
2
3
4
5
6
7
8
9
10
11
srishtirupa@linux:~$ less Demo.txt

[4]+  Stopped                  less Demo.txt
srishtirupa@linux:~$ id
uid=1000(srishtirupa) gid=1000(srishtirupa) groups=1000(srishtirupa)
srishtirupa@linux:~$ cat Demo.txt | tac | cat | cat | tac
11
2
3
4
5
6
7
8
9
10
11
```

```
srishtirupa@linux:~$ cat > marks.txt
alex - 50
ale - 70
jon - 75
carry - 85
celena - 90
justin - 80
^Z
[5]+  Stopped                  cat > marks.txt
srishtirupa@linux:~$ cat marks.txt
alex - 50
ale - 70
jon - 75
carry - 85
celena - 90
justin - 80
srishtirupa@linux:~$ cut -d- -f2 marks.txt
50
70
75
85
90
80
srishtirupa@linux:~$ cat marks.txt | grep 9
celena - 90
srishtirupa@linux:~$ ls
BigData      demo2.txt  igTest     Public      Templates
class.txt    Demo.txt  marks.txt  secondDir,hello test12.txt
copied13.txt Desktop   msg.txt    shreya1     test13.txt
demo1        Documents Music       snap        test3
demo12.txt   Downloads Pictures   T1.txt      Videos
srishtirupa@linux:~$ comm Demo.txt demo2.txt
comm: Demo.txt: No such file or directory
srishtirupa@linux:~$ comm Demo.txt demo2.txt
11
2
3
4
5
6
7
8
9
comm: file 1 is not in sorted order
10
11
```



```
hello this is kalii..
comm: input is not in sorted order
srishtirupa@linux:~$ echo class7 | sed 's/class/standard/'
standard7
srishtirupa@linux:~$ echo class7 | sed 's/7/10/'
class10
srishtirupa@linux:~$ cat marks.txt | tee new.txt |cat
alex - 50
ale - 70
jon - 75
carry - 85
celena - 90
justin - 80
srishtirupa@linux:~$ cat marks.txt | tee demo.txt |cat
alex - 50
ale - 70
jon - 75
carry - 85
celena - 90
justin - 80
srishtirupa@linux:~$ cat new.txt
alex - 50
ale - 70
jon - 75
carry - 85
celena - 90
justin - 80
srishtirupa@linux:~$ cat marks.txt |tr 'pruc' 'PRUC'
alex - 50
ale - 70
jon - 75
CaRRy - 85
Celena - 90
jUstin - 80
srishtirupa@linux:~$ wc marks.txt
 6 18 63 marks.txt
srishtirupa@linux:~$ od -b marks.txt
0000000 141 154 145 170 040 055 040 065 060 012 141 154 145 040 055 040
0000020 067 060 012 152 157 156 040 055 040 067 065 012 143 141 162 162
0000040 171 040 055 040 070 065 012 143 145 154 145 156 141 040 055 040
0000060 071 060 012 152 165 163 164 151 156 040 055 040 070 060 012
0000077
srishtirupa@linux:~$ od -t x1 marks.txt
0000000 61 6c 65 78 20 2d 20 35 30 0a 61 6c 65 20 2d 20
0000020 37 30 0a 6a 6f 6e 20 2d 20 37 35 0a 63 61 72 72
```

```

srishtirupa@linux:~$ od -t x1 marks.txt
00000000 61 6c 65 78 20 2d 20 35 30 0a 61 6c 65 20 2d 20
00000020 37 30 0a 6a 6f 6e 20 2d 20 37 35 0a 63 61 72 72
00000040 79 20 2d 20 38 35 0a 63 65 6c 65 6e 61 20 2d 20
00000060 39 30 0a 6a 75 73 74 69 6e 20 2d 20 38 30 0a
00000077
srishtirupa@linux:~$ od -c marks.txt
00000000 a l e x - 5 0 \n a l e -
00000020 7 0 \n j o n - 7 5 \n c a r r
00000040 y - 8 5 \n c e l e n a -
00000060 9 0 \n j u s t i n - 8 0 \n
00000077
srishtirupa@linux:~$ sort marks.txt
ale - 70
alex - 50
carry - 85
celena - 90
jon - 75
justin - 80
srishtirupa@linux:~$ ls
BigData      demo2.txt    Downloads    new.txt      snap         test3
class.txt    demo.txt     igTest       Pictures     T1.txt       Videos
copied13.txt Demo.txt     marks.txt    Public       Templates
demo1        Desktop     msg.txt      secondDir,hello test12.txt
demo12.txt   Documents   Music        shreyai     test13.txt
srishtirupa@linux:~$ gzip demo.txt demo2.txt
srishtirupa@linux:~$ ls
BigData      demo2.txt.gz Downloads    new.txt      snap         test3
class.txt    Demo.txt     igTest       Pictures     T1.txt       Videos
copied13.txt demo.txt.gz marks.txt    Public       Templates
demo1        Desktop     msg.txt      secondDir,hello test12.txt
demo12.txt   Documents   Music        shreyai     test13.txt
srishtirupa@linux:~$ gunzip demo.txt demo2.txt
srishtirupa@linux:~$ ls
BigData      demo2.txt    Downloads    new.txt      snap         test3
class.txt    demo.txt     igTest       Pictures     T1.txt       Videos
copied13.txt Demo.txt     marks.txt    Public       Templates
demo1        Desktop     msg.txt      secondDir,hello test12.txt
demo12.txt   Documents   Music        shreyai     test13.txt
srishtirupa@linux:~$ find . -name "*.txt"
./copied13.txt
./Documents/demo2.txt
./Documents/demo1.txt
./Demo.txt
./T1.txt
./test13.txt
./demo2.txt

```

```

/Documents/demo2.txt
/Documents/demo1.txt
/Demo.txt
/T1.txt
/test13.txt
/demo2.txt
/msg.txt
/new.txt
/marks.txt
/class.txt
/.cache/tracker3/files/last-crawl.txt
/.cache/tracker3/files/locale-for-miner-apps.txt
/.cache/tracker3/files/first-index.txt
/test12.txt
/demo12.txt
/demo.txt
rishtirupa@linux:~$ locate sysctl.conf
command 'locate' not found, but can be installed with:
apt install plocate
please ask your administrator.
rishtirupa@linux:~$ date
Tuesday 18 April 2023 03:01:41 PM IST
rishtirupa@linux:~$ cal
command 'cal' not found, but can be installed with:
apt install ncal
please ask your administrator.
rishtirupa@linux:~$ time

real    0m0.000s
user    0m0.000s
sys     0m0.000s
rishtirupa@linux:~$ gzip demo.txt demo2.txt
rishtirupa@linux:~$ ls
bigData      demo2.txt.gz  Downloads  new.txt      snap        test3
class.txt    Demo.txt     igTest     Pictures     T1.txt      Videos
copied13.txt demo.txt.gz  marks.txt  Public       Templates
demo1        Desktop      msg.txt    secondDir,hello test12.txt
demo12.txt   Documents    Music      shreyai     test13.txt
rishtirupa@linux:~$ zcat demo.txt
alex - 50
ale - 70
on - 75
arry - 85
elena - 90
ustin - 80

```



```

srishtirupa@linux:~$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
tmpfs            317876        1500    316376   1% /run
/dev/sda3       52380056 16118100  33568736  33% /
tmpfs           1589376         0    1589376   0% /dev/shm
tmpfs            5120          4      5116   1% /run/lock
/dev/sda2       524252      6216    518036   2% /boot/efi
tmpfs           317872       112    317760   1% /run/user/1000

srishtirupa@linux:~$ 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] | -i[ec] | -j[son] | -p[retty] |
                   -f[amily] { inet | inet6 | mpls | bridge | link } |
                   -4 | -6 | -M | -B | -0 |
                   -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]}

srishtirupa@linux:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:ea:eb:9a brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 84163sec preferred_lft 84163sec
    inet6 fe80::b66b:a033:477:70c7/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

srishtirupa@linux:~$ man ip
srishtirupa@linux:~$
srishtirupa@linux:~$ ping google.com
PING google.com (142.250.183.142) 56(84) bytes of data:
64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=1 ttl=110 time=101 ms
64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=2 ttl=110 time=115 ms
64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=3 ttl=110 time=128 ms
64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=4 ttl=110 time=139 ms
64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=5 ttl=110 time=161 ms

```

```
srishtirupa@linux:~$ host google.com
google.com has address 142.250.183.142
google.com has IPv6 address 2404:6800:4009:824::200e
google.com mail is handled by 10 smtp.google.com.
srishtirupa@linux:~$ hostname
linux
```

```
srishtirupa@linux:~$ history
```

```
 1  ls
 2  pwd
 3  ls
 4  ls -a
 5  ls -l
 6  pwd
 7  mkdir FirstDir
 8  ls
 9  mkdir secondDir,hello
10  lf
11  ls -r
12  Touch Test1
13  touch Test1
14  ls
15  cat test2
16  cat > test2
17  ls
18  cat test2
19  cat Test1 test2 > test3
20  ls
21  vat test3
22  cat test3
23  clear
24  whoami
25  hostnamectl
26  cal
27  sudo apt install ncal
28  apt install ncal
29  sudo apt install ncal
30  cd
31  passwd
32  su passwd
33  root passwd
34  cal
```

```

197 sort marks.txt
198 ls
199 gzip demo.txt demo2.txt
200 ls
201 gunzip demo.txt demo2.txt
202 ls
203 find . -name "*.txt"
204 locate sysctl.conf
205 date
206 cal
207 time
208 gzip demo.txt demo2.txt
209 ls
210 zcat demo.txt
211 df
212 ip
213 man ip
214 ping google.com
215 host google.com
216 hostname
217 history

```

srishtirupa@linux:~\$ top

```

top - 15:04:24 up 40 min, 1 user, load average: 0.30, 0.24, 0.36
Tasks: 206 total, 1 running, 199 sleeping, 6 stopped, 0 zombie
%Cpu(s): 16.3 us, 11.6 sy, 0.0 ni, 72.1 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3104.3 total, 1444.5 free, 797.6 used, 862.1 buff/cache
MiB Swap: 4840.0 total, 4840.0 free, 0.0 used. 2112.5 avail Mem

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1357	srishti+	20	0	4548668	375824	136640	S	10.0	11.8	3:10.23	gnome-s+
3229	srishti+	20	0	21732	4012	3416	R	10.0	0.1	0:00.07	top
1	root	20	0	166580	11696	8180	S	0.0	0.4	0:04.62	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.01	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par+
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_fl+
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_perc+
11	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tas+
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tas+
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tas+
14	root	20	0	0	0	0	S	0.0	0.0	0:00.25	ksoftir+
15	root	20	0	0	0	0	I	0.0	0.0	0:02.51	rcu_pre+
16	root	rt	0	0	0	0	S	0.0	0.0	0:00.03	migrati+
17	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_in+

[7]+ Stopped top

srishtirupa@linux:~\$ http


```
srishtirupa@linux:~$ iostat
Command 'iostat' not found, but can be installed with:
apt install sysstat
Please ask your administrator.
srishtirupa@linux:~$ lsblk
NAME        MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0       7:0      0    4K   1 loop /snap/bare/5
loop1       7:1      0   62M   1 loop /snap/core20/1587
loop2       7:2      0  63.3M   1 loop /snap/core20/1852
loop3       7:3      0   73M   1 loop /snap/core22/607
loop4       7:4      0 163.3M   1 loop /snap/firefox/1635
loop5       7:5      0 241.9M   1 loop /snap/firefox/2559
loop6       7:6      0 400.8M   1 loop /snap/gnome-3-38-2004/112
loop7       7:7      0 349.7M   1 loop /snap/gnome-3-38-2004/137
loop8       7:8      0 460.4M   1 loop /snap/gnome-42-2204/68
loop9       7:9      0 460.6M   1 loop /snap/gnome-42-2204/87
loop10      7:10     0   91.7M   1 loop /snap/gtk-common-themes/1535
loop11      7:11     0   45.9M   1 loop /snap/snap-store/582
loop12      7:12     0   45.9M   1 loop /snap/snap-store/638
loop13      7:13     0   49.8M   1 loop /snap/snapd/18596
loop14      7:14     0   284K   1 loop /snap/snapd-desktop-integration/14
loop15      7:15     0   428K   1 loop /snap/snapd-desktop-integration/57
sda         8:0      0 51.6G   0 disk
├─sda1      8:1      0    1M   0 part
├─sda2      8:2      0   513M   0 part /boot/efi
└─sda3      8:3      0 51.1G   0 part /var/snap/firefox/common/host-hunspell
                                     /
sr0        11:0     1 1024M   0 rom

srishtirupa@linux:~$
```