

```
kiit@BT-21052872: ~/Desktop
kiit@BT-21052872:~$ ls
3rd4thlargeifelse.c.save  Desktop  Downloads  Pictures  Templates  a.out  lab1today  lab5q7.c  max3noifelse.c.save  thinclient_drives
3rd4thlargeifelse.c.save.1  Documents  Music  Public  Videos  lab1  lab5q1.cpp  max3noifelse.c  max3noifelse.c.save.1
kiit@BT-21052872:~$ cd Desktop/
kiit@BT-21052872:~/Desktop$ pwd
/home/kiit/Desktop
kiit@BT-21052872:~/Desktop$ mkdir 21052872
kiit@BT-21052872:~/Desktop$ ls
21052872
kiit@BT-21052872:~/Desktop$ pwd
/home/kiit/Desktop
kiit@BT-21052872:~/Desktop$ cat > lab1
my name is shayari
kiit@BT-21052872:~/Desktop$ cat lab1
my name is shayari
kiit@BT-21052872:~/Desktop$ cp lab1 lab1copy
kiit@BT-21052872:~/Desktop$ cat lab1copy
my name is shayari
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1  lab1copy
kiit@BT-21052872:~/Desktop$ mv lab1 lab1copy
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1copy
kiit@BT-21052872:~/Desktop$ mv lab1copy lab1
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1
kiit@BT-21052872:~/Desktop$ rm lab1copy
rm: cannot remove 'lab1copy': No such file or directory
kiit@BT-21052872:~/Desktop$ cp lab1 lab1copy
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1  lab1copy
kiit@BT-21052872:~/Desktop$ rm lab1copy
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1
kiit@BT-21052872:~/Desktop$ mkdir shayari
kiit@BT-21052872:~/Desktop$ rmdir shayari
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1
kiit@BT-21052872:~/Desktop$ touch lab1
kiit@BT-21052872:~/Desktop$ who
kiit@BT-21052872:~/Desktop$ date
```

```
Select kiit@BT-21052872: ~/Desktop
/home/kiit/Desktop
kiit@BT-21052872:~/Desktop$ cat > lab1
my name is shayari
kiit@BT-21052872:~/Desktop$ cat lab1
my name is shayari
kiit@BT-21052872:~/Desktop$ cp lab1 lab1copy
kiit@BT-21052872:~/Desktop$ cat lab1copy
my name is shayari
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1  lab1copy
kiit@BT-21052872:~/Desktop$ mv lab1 lab1copy
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1copy
kiit@BT-21052872:~/Desktop$ mv lab1copy lab1
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1
kiit@BT-21052872:~/Desktop$ rm lab1copy
rm: cannot remove 'lab1copy': No such file or directory
kiit@BT-21052872:~/Desktop$ cp lab1 lab1copy
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1  lab1copy
kiit@BT-21052872:~/Desktop$ rm lab1copy
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1
kiit@BT-21052872:~/Desktop$ mkdir shayari
kiit@BT-21052872:~/Desktop$ rmdir shayari
kiit@BT-21052872:~/Desktop$ ls
21052872  lab1
kiit@BT-21052872:~/Desktop$ touch lab1
kiit@BT-21052872:~/Desktop$ who
kiit@BT-21052872:~/Desktop$ date
Thu Jan 12 13:39:41 IST 2023
kiit@BT-21052872:~/Desktop$ man
What manual page do you want?
For example, try 'man man'.
kiit@BT-21052872:~/Desktop$ man man
kiit@BT-21052872:~/Desktop$
```

```
kiit@BT-21052872: ~  
kiit@BT-21052872:~$ man man  
kiit@BT-21052872:~$  
kiit@BT-21052872:~$ mkdir 21052872  
mkdir: cannot create directory '21052872': File exists  
kiit@BT-21052872:~$ ls  
21052872 Desktop Music Templates l1 lab5q1.cpp max3noifelse.c.save  
3rd4thlargeifelse.c.save Documents Pictures Videos lab1 lab5q7.c max3noifelse.c.save.1  
3rd4thlargeifelse.c.save.1 Downloads Public a.out labtoday max3noifelse.c thinclient_drives  
kiit@BT-21052872:~$ pwd  
/home/kiit  
kiit@BT-21052872:~$ cat > l1  
hi there  
kiit@BT-21052872:~$ cat l1  
hi there  
kiit@BT-21052872:~$ echo l1  
l1  
kiit@BT-21052872:~$ uname -a  
Linux BT-21052872 5.10.16.3-microsoft-standard-WSL2 #1 SMP Fri Apr 2 22:23:49 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux  
kiit@BT-21052872:~$ cat l1  
hi there  
kiit@BT-21052872:~$ cat>l1  
hi there  
i am shayari halder  
adding few more lineskiit@BT-21052872:~$ cat l1  
hi there  
i am shayari halder  
adding few more lineskiit@BT-21052872:~$  
kiit@BT-21052872:~$ cat l1|grep "hi"  
hi there  
kiit@BT-21052872:~$ whoami  
kiit  
kiit@BT-21052872:~$ cat>l2  
i am in kiitkiit@BT-21052872:~$  
kiit@BT-21052872:~$ diff l1 l2  
1,3c1  
< hi there  
< i am shayari halder  
< adding few more lines  
\ No newline at end of file  
---  
> i am in kiit
```

```
kiit@BT-21052872: ~  
---  
> i am in kiit  
\ No newline at end of file  
kiit@BT-21052872:~$ head l1  
hi there  
i am shayari halder  
adding few more lineskiit@BT-21052872:~$  
kiit@BT-21052872:~$ tail l1  
hi there  
i am shayari halder  
adding few more lineskiit@BT-21052872:~$  
kiit@BT-21052872:~$ cat>l1  
ice cream  
roti  
me  
butter'  
rice  
pulao  
biryani  
chicken  
dessert  
kiit@BT-21052872:~$ head l1  
ice cream  
roti  
me  
butter'  
rice  
pulao  
biryani  
chicken  
dessert  
kiit@BT-21052872:~$ cat>l2  
ice cream  
roti  
pulao  
chicken  
biryani  
butter  
me  
you  
her
```

```
kiit@BT-21052872: ~  
biryani  
chicken  
dessert  
kiit@BT-21052872:~$ cat>12  
ice cream  
roti  
pulao  
chicken  
biryani  
butter  
me  
you  
her  
she  
him  
thsi  
that  
u  
w  
kiit@BT-21052872:~$ head 12  
ice cream  
roti  
pulao  
chicken  
biryani  
butter  
me  
you  
her  
she  
kiit@BT-21052872:~$ tail 12  
butter  
me  
you  
her  
she  
him  
thsi  
that  
u  
w
```

```
kiit@BT-21052872: ~  
kiit@BT-21052872:~$ comm 11 12'  
>  
> -bash: unexpected EOF while looking for matching `'  
-bash: syntax error: unexpected end of file  
kiit@BT-21052872:~$ comm 11 12  
ice cream  
roti  
me  
comm: file 1 is not in sorted order  
butter'  
pulao  
comm: file 2 is not in sorted order  
chicken  
biryani  
butter  
me  
rice  
pulao  
biryani  
chicken  
dessert  
you  
her  
she  
him  
thsi  
that  
u  
w  
kiit@BT-21052872:~$ cmp 11 12  
11 12 differ: byte 16, line 3  
kiit@BT-21052872:~$ sort 12  
biryani  
butter  
chicken  
her  
him  
ice cream  
me  
pulao  
roti
```

```
kiit@BT-21052872: ~  
she  
him  
thsi  
that  
u  
w  
kiit@BT-21052872:~$ cmp l1 l2  
l1 l2 differ: byte 16, line 3  
kiit@BT-21052872:~$ sort l2  
biryani  
butter  
chicken  
her  
him  
ice cream  
me  
pulao  
roti  
she  
that  
thsi  
u  
w  
you  
kiit@BT-21052872:~$ ssh username@hostname  
ssh: Could not resolve hostname hostname: Name or service not known  
kiit@BT-21052872:~$ service ssh status  
* sshd is not running  
kiit@BT-21052872:~$ service ssh stop  
* Stopping OpenBSD Secure Shell server sshd  
kiit@BT-21052872:~$ service ssh start  
mkmdir: cannot create directory '/run/sshd': Permission denied  
kiit@BT-21052872:~$ ifconfig  
  
Command 'ifconfig' not found, but can be installed with:  
  
sudo apt install net-tools  
  
kiit@BT-21052872:~$ sudo apt install net-tools  
[sudo] password for kiit:  
Sorry, try again.
```

```
kiit@BT-21052872: ~  
kiit@BT-21052872:~$ traceroute localhost  
  
Command 'traceroute' not found, but can be installed with:  
  
sudo apt install inetutils-traceroute # version 2:1.9.4-11ubuntu0.1, or  
sudo apt install traceroute # version 1:2.1.0-2  
  
kiit@BT-21052872:~$ 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  
29 30 31  
  
kiit@BT-21052872:~$ whereis sudo  
sudo: /usr/bin/sudo /usr/lib/sudo /usr/share/man/man8/sudo.8.gz  
kiit@BT-21052872:~$ top  
top - 22:54:36 up 1:17, 0 users, load average: 0.00, 0.00, 0.00  
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
MiB Mem : 12266.9 total, 12052.4 free, 122.6 used, 91.8 buff/cache  
MiB Swap: 4096.0 total, 4096.0 free, 0.0 used. 11952.1 avail Mem  


| PID | USER | PR | NI | VIRT  | RES  | SHR  | S | %CPU | %MEM | TIME+   | COMMAND |
|-----|------|----|----|-------|------|------|---|------|------|---------|---------|
| 1   | root | 20 | 0  | 908   | 532  | 472  | S | 0.0  | 0.0  | 0:00.03 | init    |
| 51  | root | 20 | 0  | 908   | 80   | 20   | S | 0.0  | 0.0  | 0:00.00 | init    |
| 52  | root | 20 | 0  | 908   | 80   | 20   | S | 0.0  | 0.0  | 0:00.19 | init    |
| 53  | kiit | 20 | 0  | 10040 | 5016 | 3300 | S | 0.0  | 0.0  | 0:00.14 | bash    |
| 172 | kiit | 20 | 0  | 10892 | 3716 | 3176 | R | 0.0  | 0.0  | 0:00.03 | top     |

  
top - 22:55:08 up 1:18, 0 users, load average: 0.00, 0.00, 0.00  
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
MiB Mem : 12266.9 total, 12052.4 free, 122.6 used, 91.8 buff/cache  
MiB Swap: 4096.0 total, 4096.0 free, 0.0 used. 11952.1 avail Mem  


| PID | USER | PR | NI | VIRT | RES | SHR | S | %CPU | %MEM | TIME+   | COMMAND |
|-----|------|----|----|------|-----|-----|---|------|------|---------|---------|
| 1   | root | 20 | 0  | 908  | 532 | 472 | S | 0.0  | 0.0  | 0:00.03 | init    |
| 51  | root | 20 | 0  | 908  | 80  | 20  | S | 0.0  | 0.0  | 0:00.00 | init    |
| 52  | root | 20 | 0  | 908  | 80  | 20  | S | 0.0  | 0.0  | 0:00.20 | init    |


```

```
kiit@BT-21052872:~$ top
top - 22:54:36 up 1:17, 0 users, load average: 0.00, 0.00, 0.00
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 12266.9 total, 12052.4 free, 122.6 used, 91.8 buff/cache
MiB Swap: 4096.0 total, 4096.0 free, 0.0 used. 11952.1 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	908	532	472	S	0.0	0.0	0:00.03	init
51	root	20	0	908	80	20	S	0.0	0.0	0:00.00	init
52	root	20	0	908	80	20	S	0.0	0.0	0:00.19	init
53	kiit	20	0	10040	5016	3300	S	0.0	0.0	0:00.14	bash
172	kiit	20	0	10892	3716	3176	R	0.0	0.0	0:00.03	top

```
top - 22:55:08 up 1:18, 0 users, load average: 0.00, 0.00, 0.00
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 12266.9 total, 12052.4 free, 122.6 used, 91.8 buff/cache
MiB Swap: 4096.0 total, 4096.0 free, 0.0 used. 11952.1 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	908	532	472	S	0.0	0.0	0:00.03	init
51	root	20	0	908	80	20	S	0.0	0.0	0:00.00	init
52	root	20	0	908	80	20	S	0.0	0.0	0:00.20	init
53	kiit	20	0	10040	5016	3300	S	0.0	0.0	0:00.14	bash
172	kiit	20	0	10892	3716	3176	R	0.0	0.0	0:00.04	top

```
top - 22:55:21 up 1:18, 0 users, load average: 0.00, 0.00, 0.00
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 12266.9 total, 12052.4 free, 122.6 used, 91.8 buff/cache
MiB Swap: 4096.0 total, 4096.0 free, 0.0 used. 11952.1 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	908	532	472	S	0.0	0.0	0:00.03	init
51	root	20	0	908	80	20	S	0.0	0.0	0:00.00	init
52	root	20	0	908	80	20	S	0.0	0.0	0:00.20	init
53	kiit	20	0	10040	5016	3300	S	0.0	0.0	0:00.14	bash
172	kiit	20	0	10892	3716	3176	R	0.0	0.0	0:00.04	top