

NANO editor commands

```
Activities Terminal Apr 13 14:17
hitendra@hitendra-VM: ~/Hitendra
hitendra@hitendra-VM:~$ cd Hitendra
hitendra@hitendra-VM:~/Hitendra$ nano file.txt
hitendra@hitendra-VM:~/Hitendra$
```

1. Ctr + W for search

```
Activities Terminal Apr 13 14:12
hitendra@hitendra-VM: ~/Hitendra
GNU nano 6.2 file.txt *
This is text file 2 created with cat command.
Hi this is txt file 1
```

2. ctr+K for cut and ctr+U for paste

```
Activities Terminal Apr 13 14:14
hitendra@hitendra-VM: ~/Hitendra
GNU nano 6.2 file.txt *
Hi this is txt file 1
```

```
Activities Terminal Apr 13 14:14
hitendra@hitendra-VM: ~/Hitendra
GNU nano 6.2 file.txt *
Hi this is txt file 1
This is text file 2 created with cat command.
```

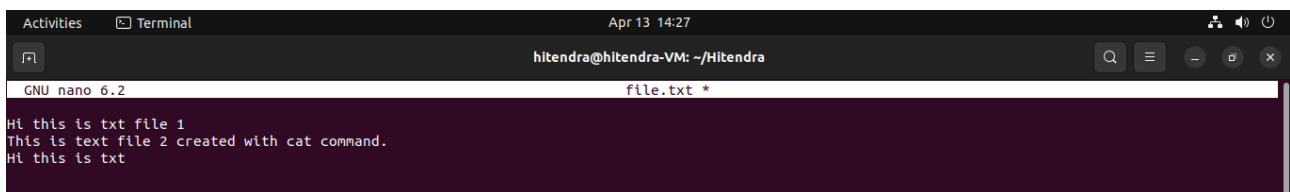
3. Alt+A to mark txt

```
Activities Terminal Apr 13 14:22
hitendra@hitendra-VM: ~/Hitendra
GNU nano 6.2 file.txt M
Hi this is txt file 1
This is text file 2 created with cat command.
```

4. Alt+6 to copy text into cut buffer

```
Activities Terminal Apr 13 14:23
hitendra@hitendra-VM: ~/Hitendra
GNU nano 6.2 file.txt
Hi this is txt file 1
This is text file 2 created with cat command.
```

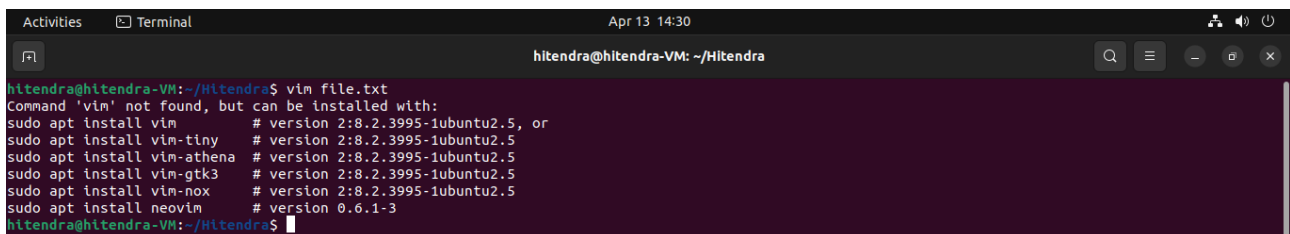
5. ctr+U to paste text from cut buffer



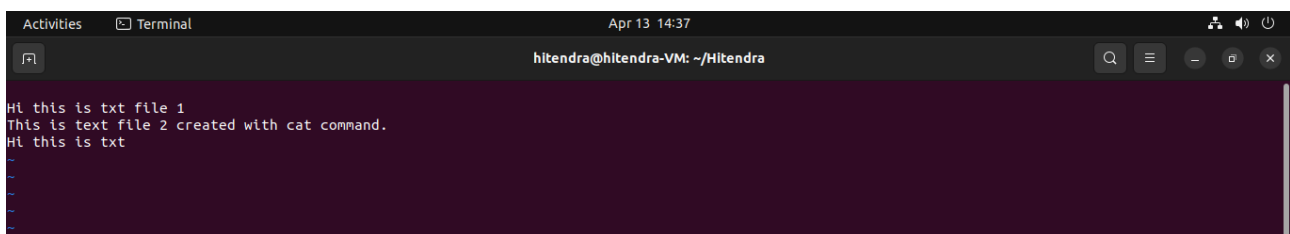
```
Activities Terminal Apr 13 14:27
hitendra@hitendra-VM: ~/Hitendra
GNU nano 6.2 file.txt *
Hi this is txt file 1
This is text file 2 created with cat command.
Hi this is txt
```

VIM Editor commands

Vim editor was not installed hence needed to install by using apt install command.

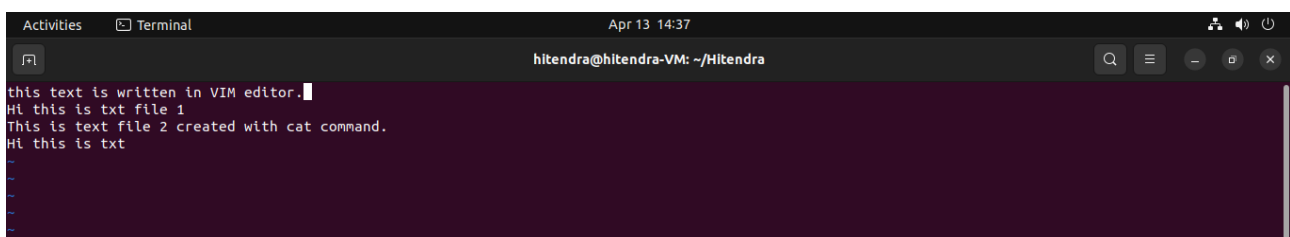


```
Activities Terminal Apr 13 14:30
hitendra@hitendra-VM: ~/Hitendra
hitendra@hitendra-VM:~/Hitendra$ vim file.txt
Command 'vim' not found, but can be installed with:
sudo apt install vim # version 2:8.2.3995-1ubuntu2.5, or
sudo apt install vim-tiny # version 2:8.2.3995-1ubuntu2.5
sudo apt install vim-athena # version 2:8.2.3995-1ubuntu2.5
sudo apt install vim-gtk3 # version 2:8.2.3995-1ubuntu2.5
sudo apt install vim-nox # version 2:8.2.3995-1ubuntu2.5
sudo apt install neovim # version 0.6.1-3
hitendra@hitendra-VM:~/Hitendra$
```



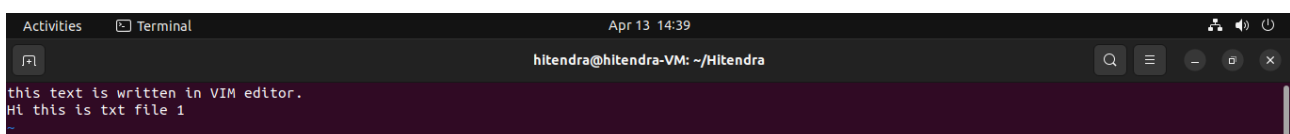
```
Activities Terminal Apr 13 14:37
hitendra@hitendra-VM: ~/Hitendra
Hi this is txt file 1
This is text file 2 created with cat command.
Hi this is txt
```

1. with 'i' to insert text then Esc+W to save file



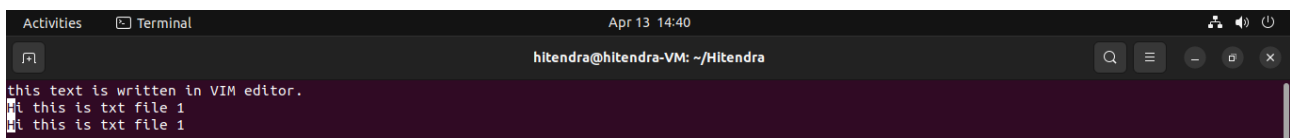
```
Activities Terminal Apr 13 14:37
hitendra@hitendra-VM: ~/Hitendra
this text is written in VIM editor.
Hi this is txt file 1
This is text file 2 created with cat command.
Hi this is txt
```

2. 'dd' to delete line



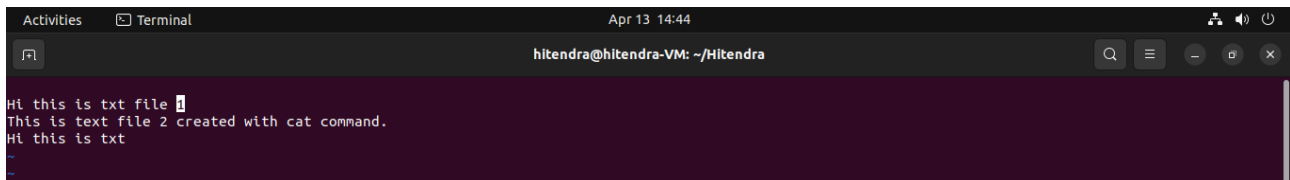
```
Activities Terminal Apr 13 14:39
hitendra@hitendra-VM: ~/Hitendra
this text is written in VIM editor.
Hi this is txt file 1
```

3. 'yy' to copy line and then 'p' to paste it



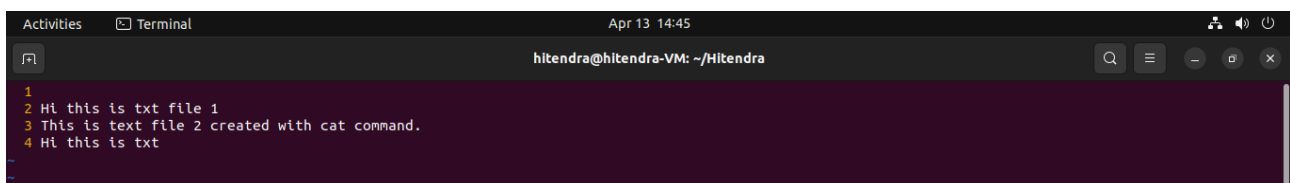
A terminal window titled 'hitendra@hitendra-VM: ~/Hitendra' showing a Vim editor session. The text 'this text is written in VIM editor.' is on the first line. The second and third lines are 'Hi this is txt file 1', each preceded by a small cursor icon indicating they have been copied and pasted.

4. '/<find word>' : to search any word



A terminal window titled 'hitendra@hitendra-VM: ~/Hitendra' showing a Vim editor session. The text 'Hi this is txt file 1' is on the first line, 'This is text file 2 created with cat command.' is on the second line, and 'Hi this is txt' is on the third line. A cursor is visible at the end of the first line.

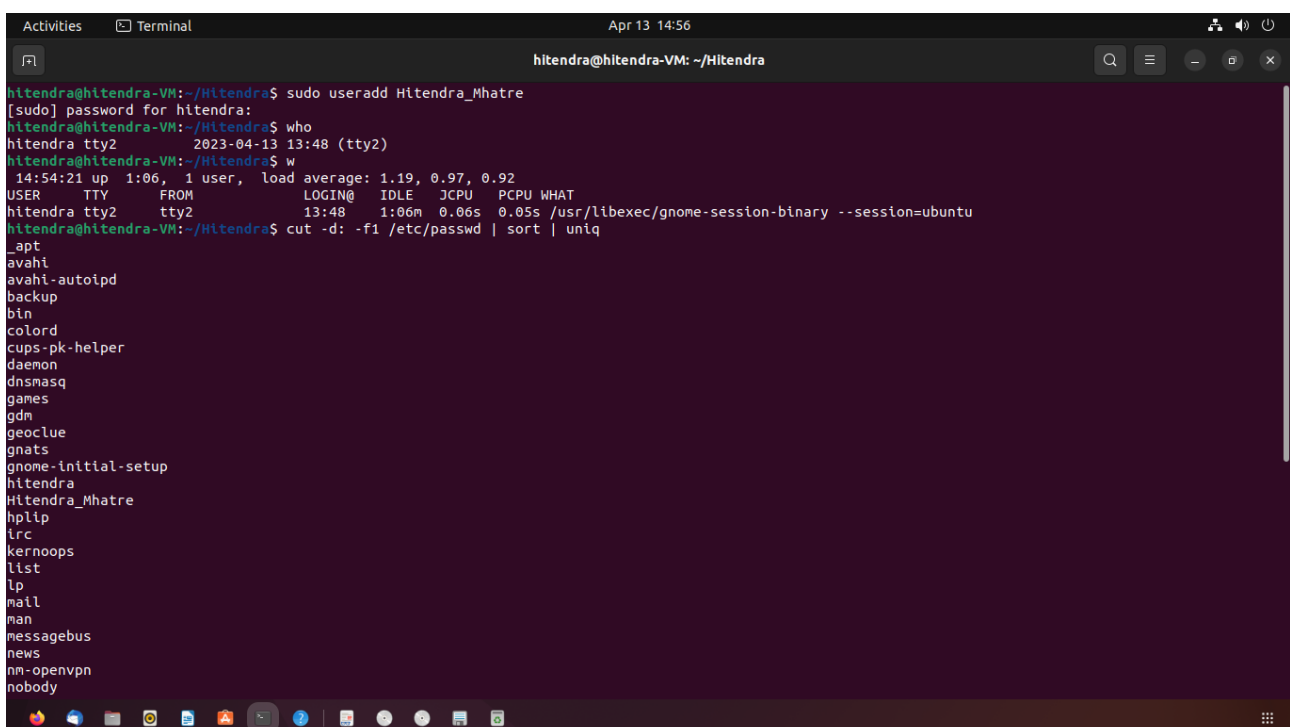
5. 'set nu' to set line number



A terminal window titled 'hitendra@hitendra-VM: ~/Hitendra' showing a Vim editor session. The text is displayed with line numbers: '1 Hi this is txt file 1', '2 This is text file 2 created with cat command.', and '4 Hi this is txt'.

User and group management

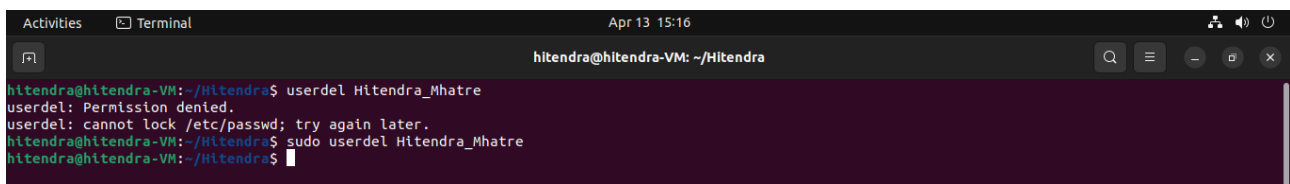
1. to add new user and to check users present.



A terminal window titled 'hitendra@hitendra-VM: ~/Hitendra' showing a series of commands and their outputs for user and group management.

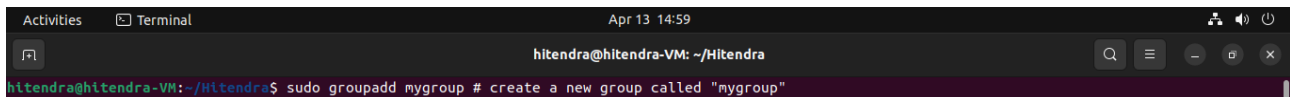
```
hitendra@hitendra-VM:~/Hitendra$ sudo useradd Hitendra_Mhatre
[sudo] password for hitendra:
hitendra@hitendra-VM:~/Hitendra$ who
hitendra tty2          2023-04-13 13:48 (tty2)
hitendra@hitendra-VM:~/Hitendra$ w
 14:54:21 up 1:06, 1 user, load average: 1.19, 0.97, 0.92
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
hitendra  tty2     tty2          13:48    1:06m  0.06s  0.05s /usr/libexec/gnome-session-binary --session=ubuntu
hitendra@hitendra-VM:~/Hitendra$ cut -d: -f1 /etc/passwd | sort | uniq
_apt
avahi
avahi-autoipd
backup
bin
colord
cups-pk-helper
daemon
dnsmasq
games
gdm
geoclue
gnats
gnome-initial-setup
hitendra
Hitendra_Mhatre
hplip
irc
kernoops
list
lp
mail
man
messagebus
news
nm-openvpn
nobody
```

2. to delete user

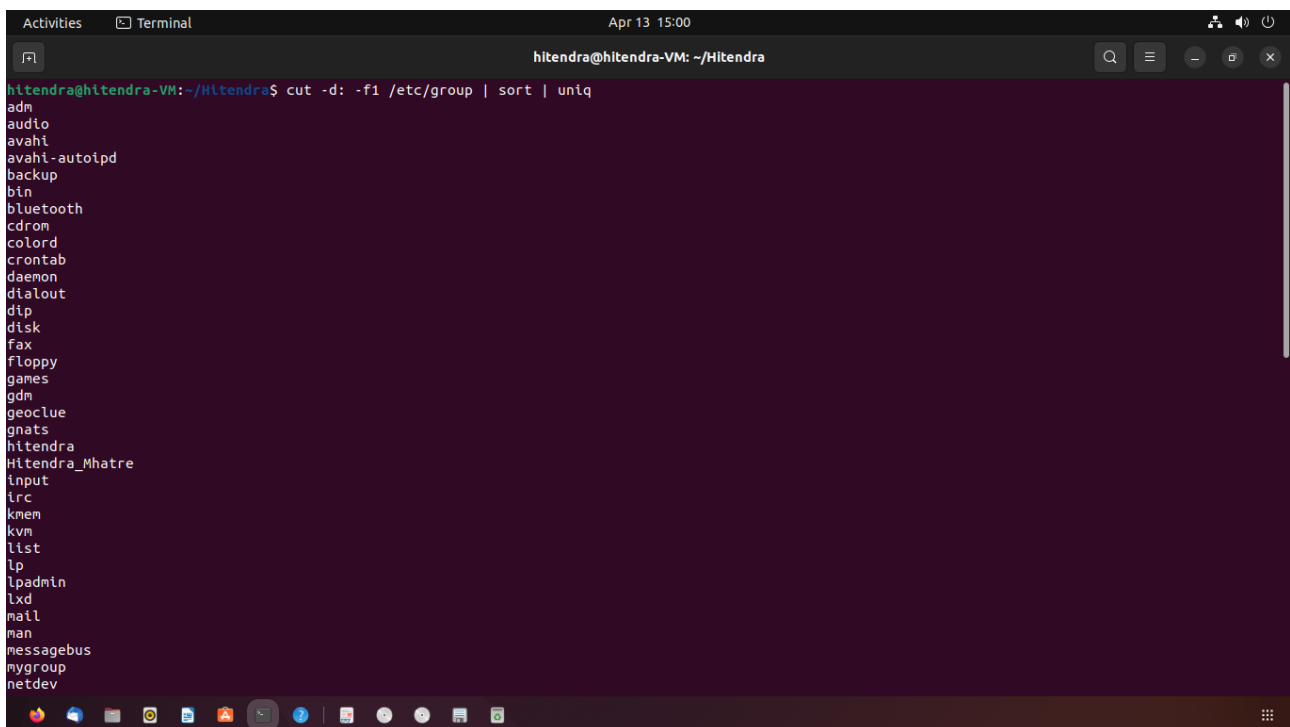
A terminal window titled 'hitendra@hitendra-VM: ~/Hitendra' with a timestamp of 'Apr 13 15:16'. The user 'hitendra' is at the prompt. They enter 'userdel Hitendra_Mhatre'. The system responds with 'userdel: Permission denied.' and 'userdel: cannot lock /etc/passwd; try again later.' The user then enters 'sudo userdel Hitendra_Mhatre' and the prompt returns.

```
hitendra@hitendra-VM: ~/Hitendra$ userdel Hitendra_Mhatre
userdel: Permission denied.
userdel: cannot lock /etc/passwd; try again later.
hitendra@hitendra-VM: ~/Hitendra$ sudo userdel Hitendra_Mhatre
hitendra@hitendra-VM: ~/Hitendra$
```

3. to create group and view all groups present

A terminal window titled 'hitendra@hitendra-VM: ~/Hitendra' with a timestamp of 'Apr 13 14:59'. The user 'hitendra' is at the prompt. They enter 'sudo groupadd mygroup # create a new group called "mygroup"'. The prompt returns.

```
hitendra@hitendra-VM: ~/Hitendra$ sudo groupadd mygroup # create a new group called "mygroup"
hitendra@hitendra-VM: ~/Hitendra$
```

A terminal window titled 'hitendra@hitendra-VM: ~/Hitendra' with a timestamp of 'Apr 13 15:00'. The user 'hitendra' is at the prompt. They enter 'cut -d: -f1 /etc/group | sort | uniq'. The system outputs a list of groups: adm, audio, avahi, avahi-autoipd, backup, bin, bluetooth, cdrom, colord, crontab, daemon, dialout, dip, disk, fax, floppy, games, gdm, geoclue, gnats, gnats, hitendra, Hitendra_Mhatre, input, irc, kmem, kvm, list, lp, lpadmin, lxd, mail, man, messagebus, mygroup, and netdev.

```
hitendra@hitendra-VM: ~/Hitendra$ cut -d: -f1 /etc/group | sort | uniq
adm
audio
avahi
avahi-autoipd
backup
bin
bluetooth
cdrom
colord
crontab
daemon
dialout
dip
disk
fax
floppy
games
gdm
geoclue
gnats
gnats
hitendra
Hitendra_Mhatre
input
irc
kmem
kvm
list
lp
lpadmin
lxd
mail
man
messagebus
mygroup
netdev
```

4. rename the group

```
Activities Terminal Apr 13 15:06
hitendra@hitendra-VM: ~/Hitendra
hitendra@hitendra-VM:~/Hitendra$ sudo groupmod -n mygroupnew mygroup # rename the group from "mygroup" to "mygroupnew"
hitendra@hitendra-VM:~/Hitendra$ cut -d: -f1 /etc/group | sort | uniq
adm
audio
avahi
avahi-autoipd
backup
bin
bluetooth
cdrom
colord
crontab
daemon
dialout
dip
disk
fax
floppy
games
gdm
geoclue
gnats
hitendra
Hitendra_Mhatre
input
irc
kmem
kvm
list
lp
lpadmin
lxd
mail
man
messagebus
mygroupnew
```

AWK commands

```
Activities Terminal Apr 13 15:28
hitendra@hitendra-VM: ~/Hitendra
hitendra@hitendra-VM:~/Hitendra$ awk '{print}' employee.txt
Hitendra Mhatre 26 trainee
Rayan Khan 28 Senior_Engineer
Rashmi Patil 32 Manager
hitendra@hitendra-VM:~/Hitendra$ awk '{ print $1,$3}' employee.txt
Hitendra 26
Rayan 28
Rashmi 32
hitendra@hitendra-VM:~/Hitendra$ awk '{ if ($2=="Khan") print}' employee.txt
Rayan Khan 28 Senior_Engineer
hitendra@hitendra-VM:~/Hitendra$ awk '{ sum += $3} END { print sum }' employee.txt
86
hitendra@hitendra-VM:~/Hitendra$ awk '{ sum += $3} END { print sum/NR }' employee.txt
28.6667
hitendra@hitendra-VM:~/Hitendra$ awk 'END { print NR }' employee.txt
3
hitendra@hitendra-VM:~/Hitendra$ awk '{ if (length > max) {max=length; longest=$0}}END { print longest}' employee.txt
Rayan Khan 28 Senior_Engineer
hitendra@hitendra-VM:~/Hitendra$
```