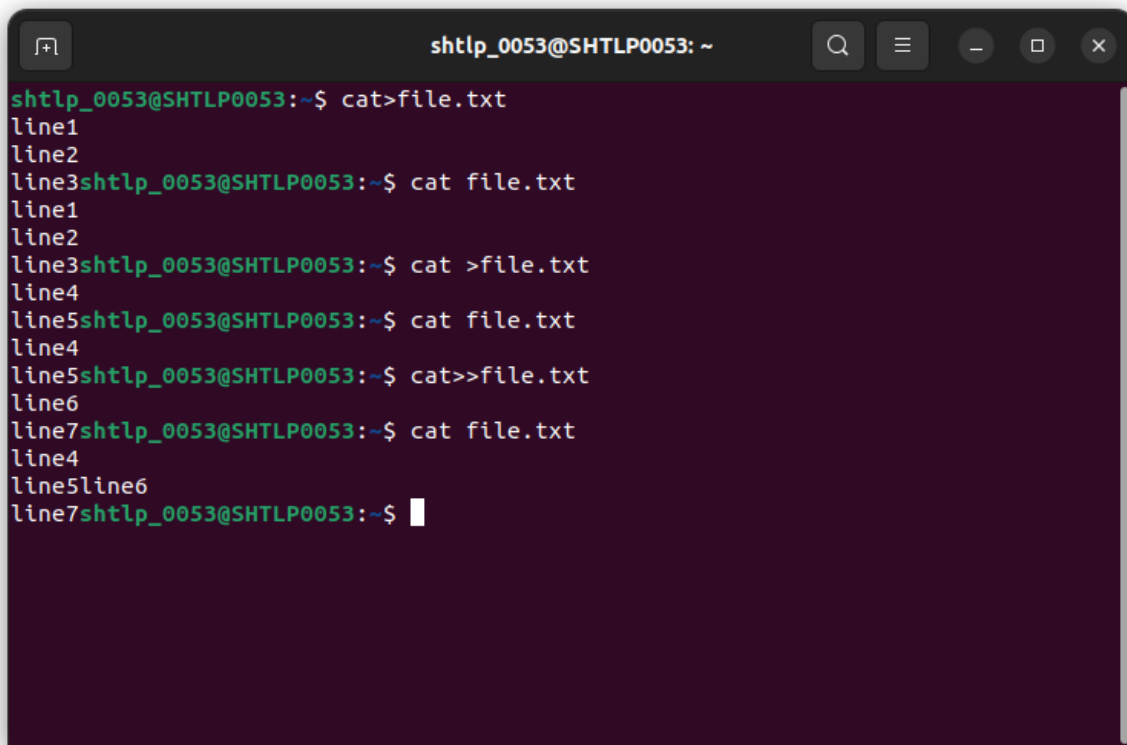


Linux Command Line 2

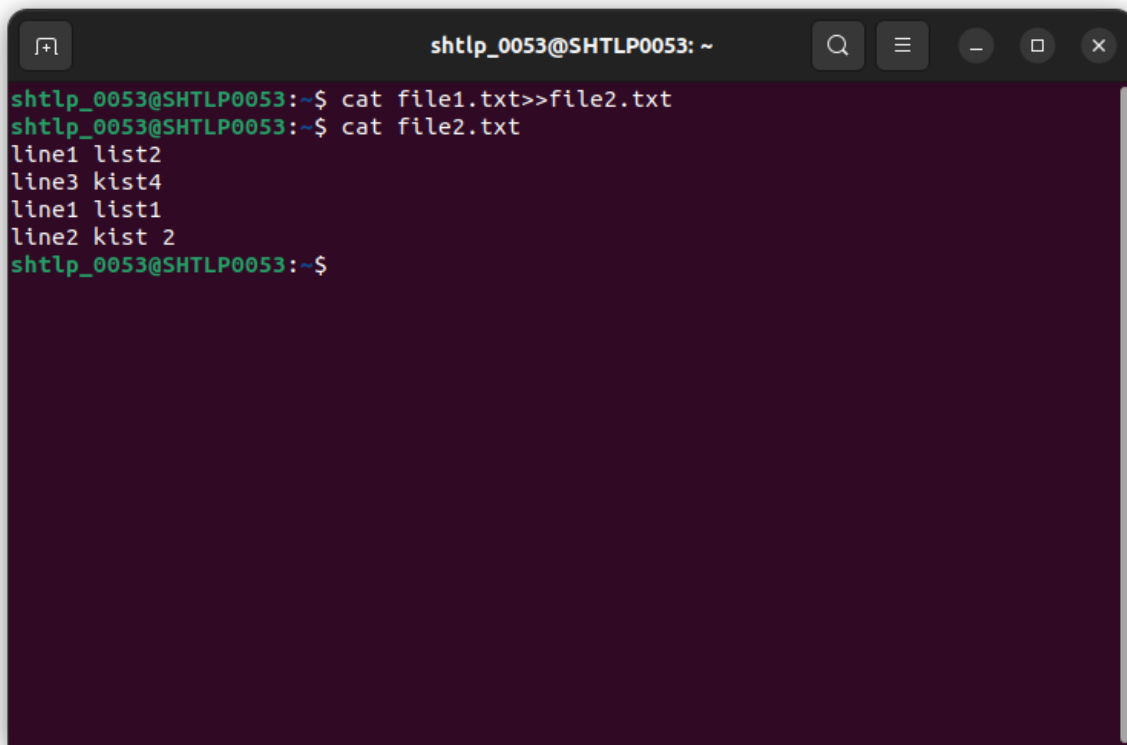
1- cat > file.txt

2- cat >>file.txt

A terminal window with a dark purple background and white text. The window title is 'shtlp_0053@SHTLP0053: ~'. It shows a sequence of commands and their outputs. The first command 'cat >file.txt' is followed by 'line1' and 'line2'. The second command 'cat file.txt' shows 'line1' and 'line2'. The third command 'cat >file.txt' is followed by 'line4'. The fourth command 'cat file.txt' shows 'line4'. The fifth command 'cat >>file.txt' is followed by 'line6'. The sixth command 'cat file.txt' shows 'line4' and 'line6'. The prompt 'shtlp_0053@SHTLP0053:~\$' is followed by a cursor.

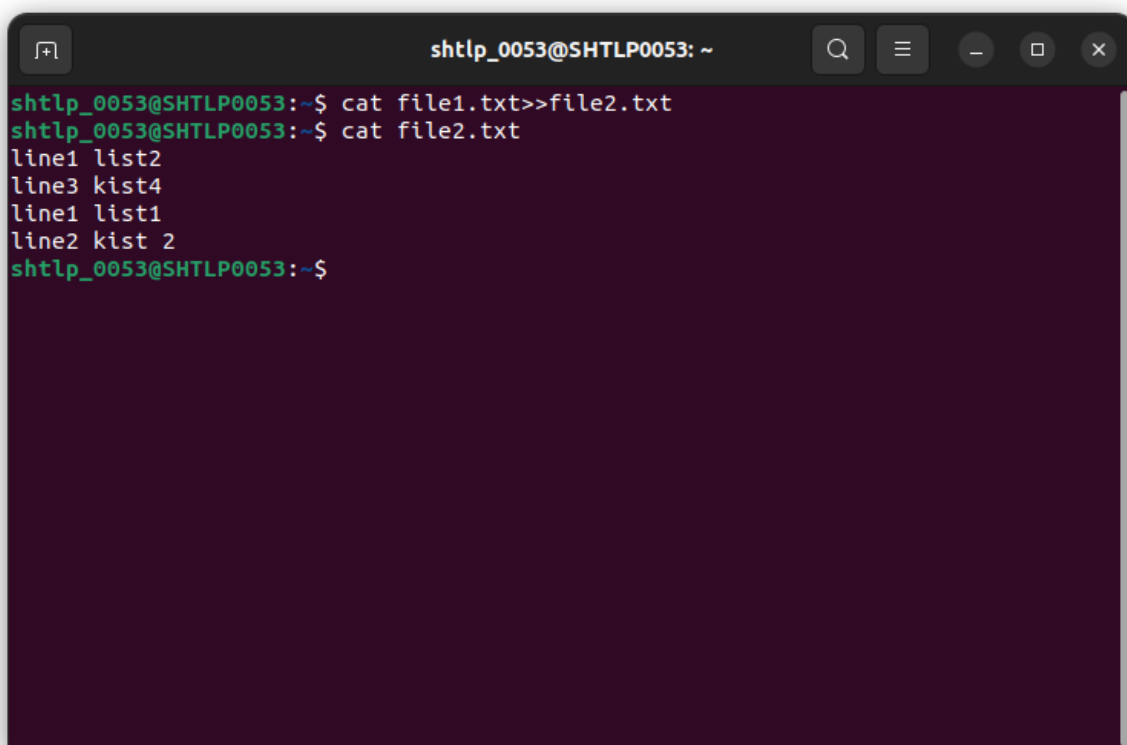
```
shtlp_0053@SHTLP0053:~$ cat>file.txt
line1
line2
line3shtlp_0053@SHTLP0053:~$ cat file.txt
line1
line2
line3shtlp_0053@SHTLP0053:~$ cat >file.txt
line4
line5shtlp_0053@SHTLP0053:~$ cat file.txt
line4
line5shtlp_0053@SHTLP0053:~$ cat >>file.txt
line6
line7shtlp_0053@SHTLP0053:~$ cat file.txt
line4
line5line6
line7shtlp_0053@SHTLP0053:~$
```

3-cat file1.txt file2.txt>output.txt

A terminal window with a dark purple background. The title bar shows 'shtlp_0053@SHTLP0053: ~'. The terminal contains the following text:

```
shtlp_0053@SHTLP0053:~$ cat file1.txt>>file2.txt
shtlp_0053@SHTLP0053:~$ cat file2.txt
line1 list2
line3 kist4
line1 list1
line2 kist 2
shtlp_0053@SHTLP0053:~$
```

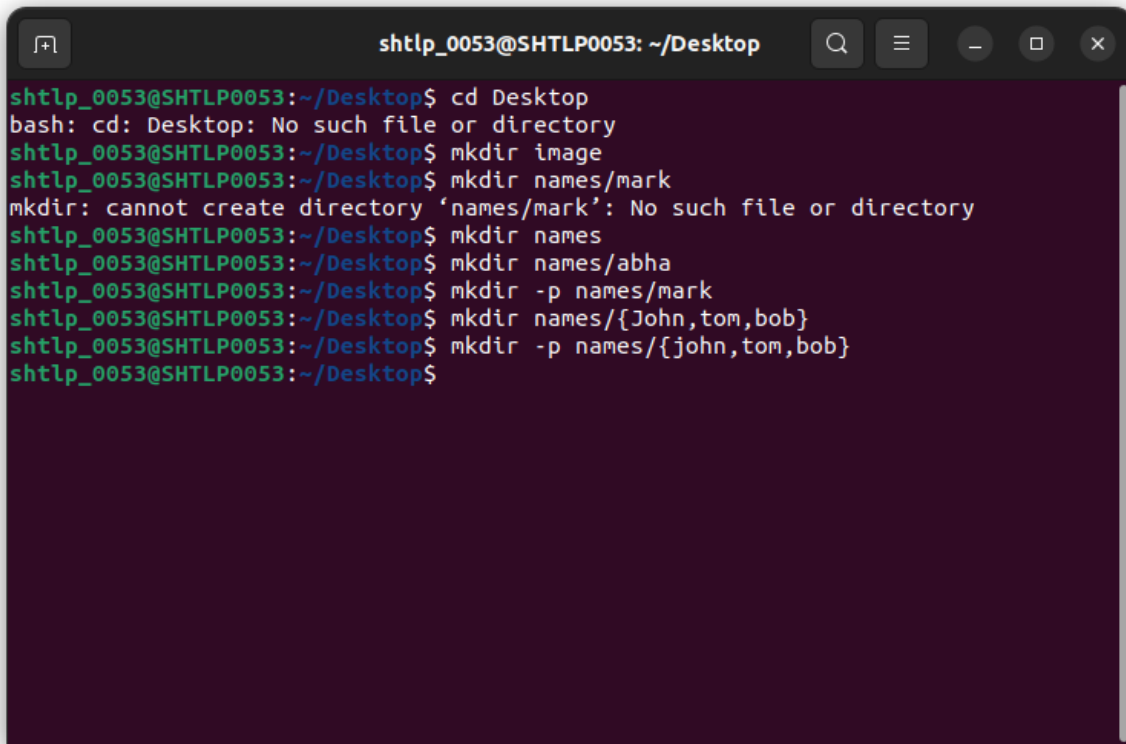
4)-cat file1.txt>>file2.txt

A terminal window with a dark purple background. The title bar shows 'shtlp_0053@SHTLP0053: ~'. The terminal contains the following text:

```
shtlp_0053@SHTLP0053:~$ cat file1.txt>>file2.txt
shtlp_0053@SHTLP0053:~$ cat file2.txt
line1 list2
line3 kist4
line1 list1
line2 kist 2
shtlp_0053@SHTLP0053:~$
```

5) mkdir image
makes folder

- 6) mkdir image/pics: makes folder inside existing folder
- 7) mkdir -p name/mark
- 8) mkdir —parents name/mark: creates folder structure
- 9) mkdir -p name/{x,y,z} : this command is used for creating array of directories

A terminal window with a dark background and light-colored text. The window title is 'shtlp_0053@SHTLP0053: ~/Desktop'. The terminal shows a series of commands and their outputs. The commands are: 'cd Desktop', 'mkdir image', 'mkdir names/mark', 'mkdir names', 'mkdir names/abha', 'mkdir -p names/mark', 'mkdir names/{John,tom,bob}', and 'mkdir -p names/{john,tom,bob}'. The outputs are: 'bash: cd: Desktop: No such file or directory', 'mkdir: cannot create directory 'names/mark': No such file or directory', and several empty lines for successful commands.

```
shtlp_0053@SHTLP0053: ~/Desktop
shtlp_0053@SHTLP0053:~/Desktop$ cd Desktop
bash: cd: Desktop: No such file or directory
shtlp_0053@SHTLP0053:~/Desktop$ mkdir image
shtlp_0053@SHTLP0053:~/Desktop$ mkdir names/mark
mkdir: cannot create directory 'names/mark': No such file or directory
shtlp_0053@SHTLP0053:~/Desktop$ mkdir names
shtlp_0053@SHTLP0053:~/Desktop$ mkdir names/abha
shtlp_0053@SHTLP0053:~/Desktop$ mkdir -p names/mark
shtlp_0053@SHTLP0053:~/Desktop$ mkdir names/{John,tom,bob}
shtlp_0053@SHTLP0053:~/Desktop$ mkdir -p names/{john,tom,bob}
shtlp_0053@SHTLP0053:~/Desktop$
```

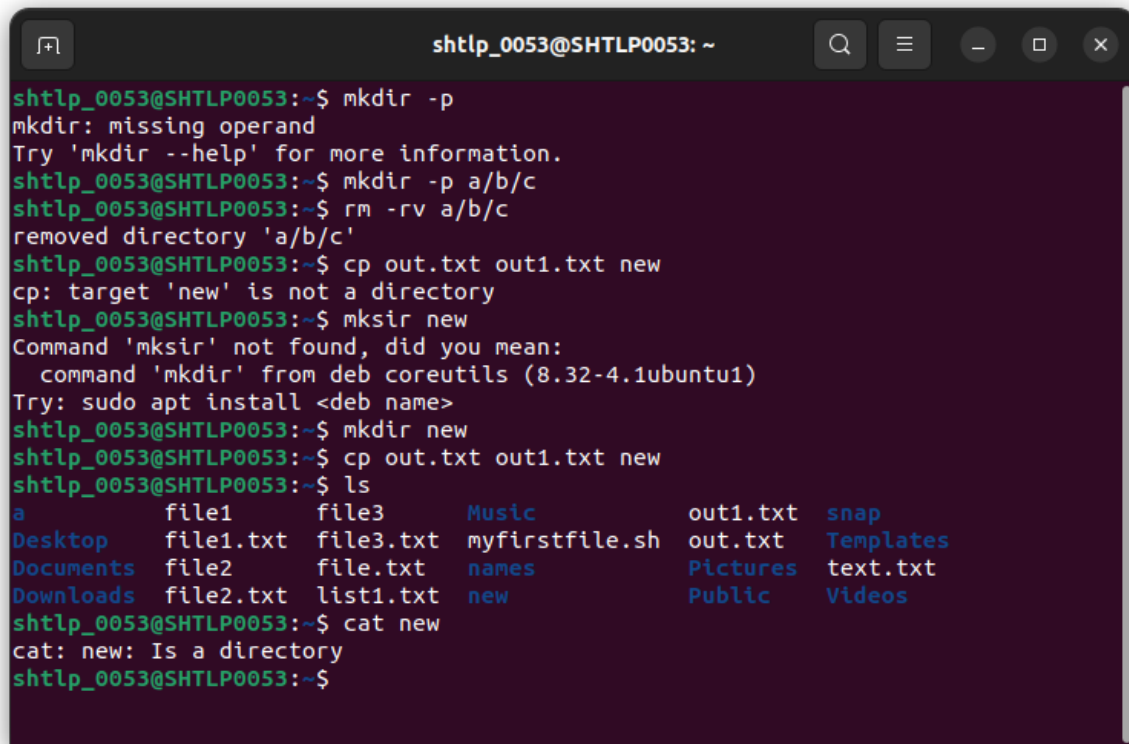
- 10) rmdir -p a/b/c/d: remove directory structure (directory only)
- 11) rmdir -pv a/b/c/d: this will get info of background processes

```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ mkdir -p a/b/c/d/e  
shtlp_0053@SHTLP0053:~$ emdir -p a/b/c/d/e  
Command 'emdir' not found, did you mean:  
  command 'mdir' from deb mtools (4.0.33-1+really4.0.32-1build1)  
  command 'mmdir' from deb simh (3.8.1-6.1)  
  command 'rmdir' from deb coreutils (8.32-4.1ubuntu1)  
Try: sudo apt install <deb name>  
shtlp_0053@SHTLP0053:~$ rmdir -p a/b/c/d/e  
shtlp_0053@SHTLP0053:~$
```

```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ mkdir -p a/b/c/d/e  
shtlp_0053@SHTLP0053:~$ rmdir -pv a/b/c/d/e  
rmdir: removing directory, 'a/b/c/d/e'  
rmdir: removing directory, 'a/b/c/d'  
rmdir: removing directory, 'a/b/c'  
rmdir: removing directory, 'a/b'  
rmdir: removing directory, 'a'  
shtlp_0053@SHTLP0053:~$
```

- 12) `rm -rv a`: removes files directory all
- 13) `cp text.txt text2.txt`
`cp [options] [source] [destination]`
- 14) `cp x.txt y.txt new`

use -i flag to avoid overwriting



```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ mkdir -p  
mkdir: missing operand  
Try 'mkdir --help' for more information.  
shtlp_0053@SHTLP0053:~$ mkdir -p a/b/c  
shtlp_0053@SHTLP0053:~$ rm -rv a/b/c  
removed directory 'a/b/c'  
shtlp_0053@SHTLP0053:~$ cp out.txt out1.txt new  
cp: target 'new' is not a directory  
shtlp_0053@SHTLP0053:~$ mksir new  
Command 'mksir' not found, did you mean:  
  command 'mkdir' from deb coreutils (8.32-4.1ubuntu1)  
Try: sudo apt install <deb name>  
shtlp_0053@SHTLP0053:~$ mkdir new  
shtlp_0053@SHTLP0053:~$ cp out.txt out1.txt new  
shtlp_0053@SHTLP0053:~$ ls  
a          file1      file3      Music      out1.txt   snap  
Desktop    file1.txt  file3.txt  myfirstfile.sh out.txt    Templates  
Documents  file2      file.txt   names      Pictures   text.txt  
Downloads  file2.txt  list1.txt  new        Public     Videos  
shtlp_0053@SHTLP0053:~$ cat new  
cat: new: Is a directory  
shtlp_0053@SHTLP0053:~$
```

15) `cp -R dir1 dir2` : for dir1 containing files

16) `mv file1.txt file2.txt`

`mv [options] [source] [destination]`: moves data of file1 in file2 and remove file1

17) `mv file1.txt dir/`: moves file1 to directory dir

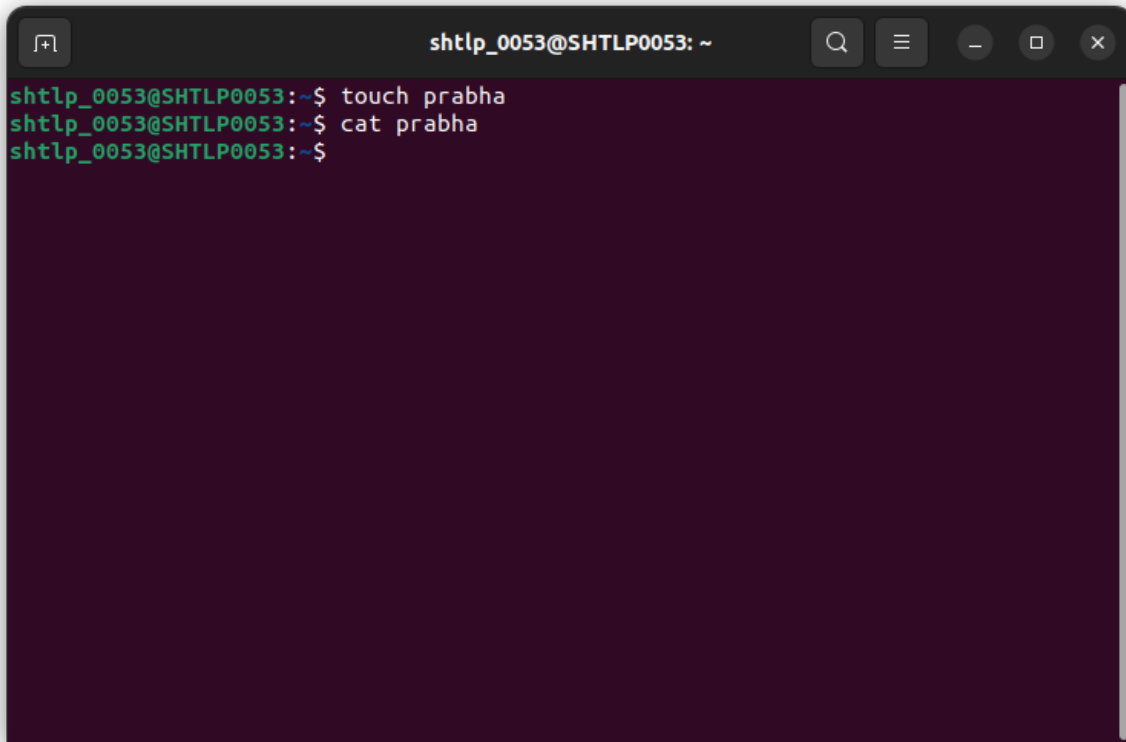
use -i flag to avoid overwriting

A terminal window with a dark purple background and a title bar that reads 'shtlp_0053@SHTLP0053: ~'. The terminal shows a sequence of commands and their outputs: 'mv list1.txt myfirstfile.txt' is executed successfully. Then 'cat myfirstfile' is run, resulting in an error message 'cat: myfirstfile: No such file or directory'. Finally, 'cat myfirstfile.txt' is run, displaying the contents of the file: 'list 1 line 1' and 'list 1 line 2'. There is a blank line, followed by 'list 1 line 3', and then the prompt 'shtlp_0053@SHTLP0053:~\$' appears again.

```
shtlp_0053@SHTLP0053:~$ mv list1.txt myfirstfile.txt
shtlp_0053@SHTLP0053:~$ cat myfirstfile
cat: myfirstfile: No such file or directory
shtlp_0053@SHTLP0053:~$ cat myfirstfile.txt
list 1 line 1
list 1 line 2

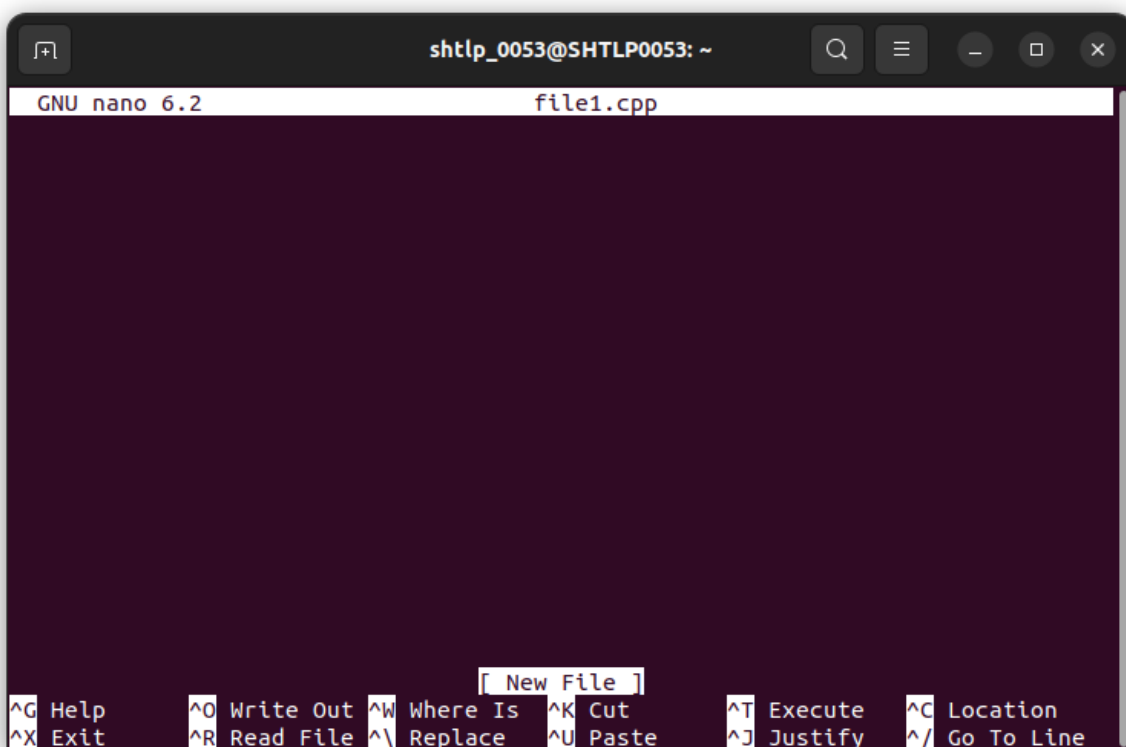
list 1 line 3
shtlp_0053@SHTLP0053:~$
```

- 18) less big.txt: read big text using down button like a book
- change page using space bar
- shift + g to the end
- 1+g go to top page
- /[keyword] searches keyword
- ?[keyword] searches from the down
- 19) touch file1
- if file1 exists the timestamp changes else file1 is created



```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ touch prabha  
shtlp_0053@SHTLP0053:~$ cat prabha  
shtlp_0053@SHTLP0053:~$
```

20) nano file1.cpp:nano is text editor. it has highlighting for codes



```
GNU nano 6.2 file1.cpp  
  
[ New File ]  
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location  
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line
```

21) sudo apt install nodejs
sudo: Super User DO
helps have administrative rights

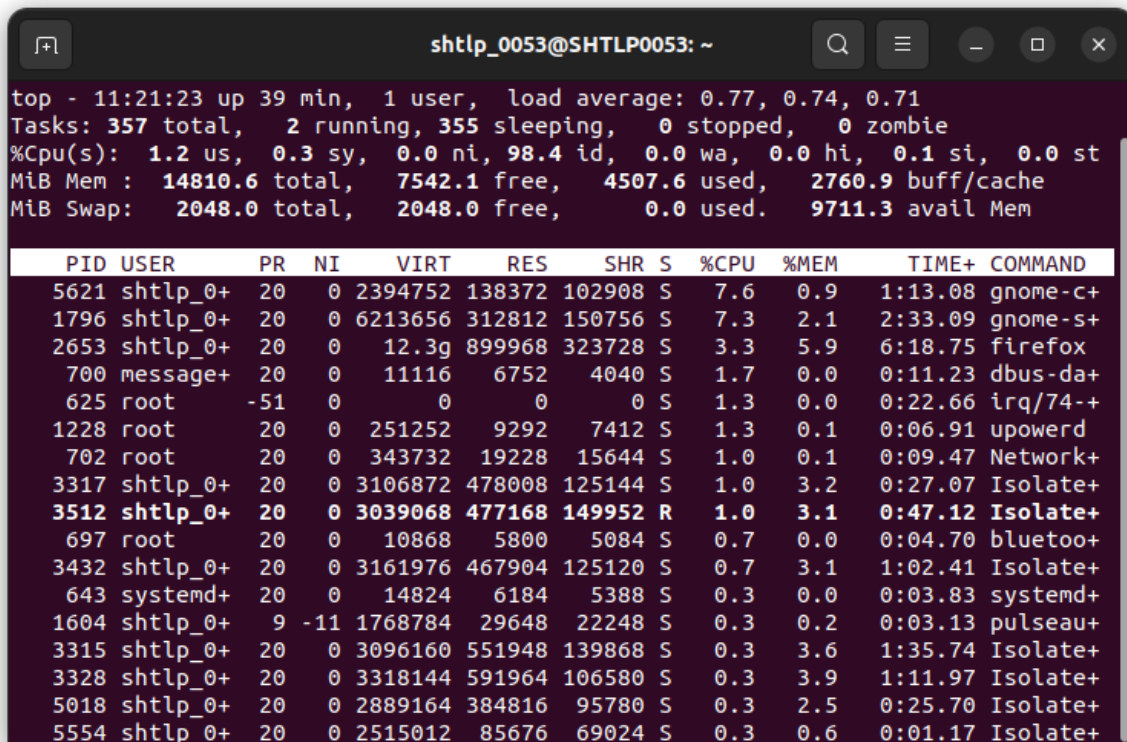
sudo -s for root privileges (sudo su)

22) top: Which process or command are using in your memory you can see by this command

type s to change time of updation

i for ideal processes

k for killing any process



```
top - 11:21:23 up 39 min, 1 user, load average: 0.77, 0.74, 0.71
Tasks: 357 total, 2 running, 355 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.2 us, 0.3 sy, 0.0 ni, 98.4 id, 0.0 wa, 0.0 hi, 0.1 si, 0.0 st
MiB Mem : 14810.6 total, 7542.1 free, 4507.6 used, 2760.9 buff/cache
MiB Swap: 2048.0 total, 2048.0 free, 0.0 used. 9711.3 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 5621 shtlp_0+  20   0 2394752 138372 102908 S   7.6   0.9   1:13.08 gnome-c+
 1796 shtlp_0+  20   0 6213656 312812 150756 S   7.3   2.1   2:33.09 gnome-s+
 2653 shtlp_0+  20   0  12.3g 899968 323728 S   3.3   5.9   6:18.75 firefox
  700 message+ 20   0  11116   6752   4040 S   1.7   0.0   0:11.23 dbus-da+
  625 root      -51   0     0     0     0 S   1.3   0.0   0:22.66 irq/74-+
 1228 root      20   0 251252   9292   7412 S   1.3   0.1   0:06.91 upowerd
  702 root      20   0 343732  19228  15644 S   1.0   0.1   0:09.47 Network+
 3317 shtlp_0+  20   0 3106872 478008 125144 S   1.0   3.2   0:27.07 Isolate+
 3512 shtlp_0+  20   0 3039068 477168 149952 R   1.0   3.1   0:47.12 Isolate+
  697 root      20   0  10868   5800   5084 S   0.7   0.0   0:04.70 bluetoo+
 3432 shtlp_0+  20   0 3161976 467904 125120 S   0.7   3.1   1:02.41 Isolate+
  643 systemd+ 20   0  14824   6184   5388 S   0.3   0.0   0:03.83 systemd+
 1604 shtlp_0+   9 -11 1768784 29648  22248 S   0.3   0.2   0:03.13 pulseau+
 3315 shtlp_0+  20   0 3096160 551948 139868 S   0.3   3.6   1:35.74 Isolate+
 3328 shtlp_0+  20   0 3318144 591964 106580 S   0.3   3.9   1:11.97 Isolate+
 5018 shtlp_0+  20   0 2889164 384816  95780 S   0.3   2.5   0:25.70 Isolate+
 5554 shtlp_0+  20   0 2515012  85676  69024 S   0.3   0.6   0:01.17 Isolate+
```

23)pidof processername

With this command you can get pid

24)kill pid

This will kill the process id

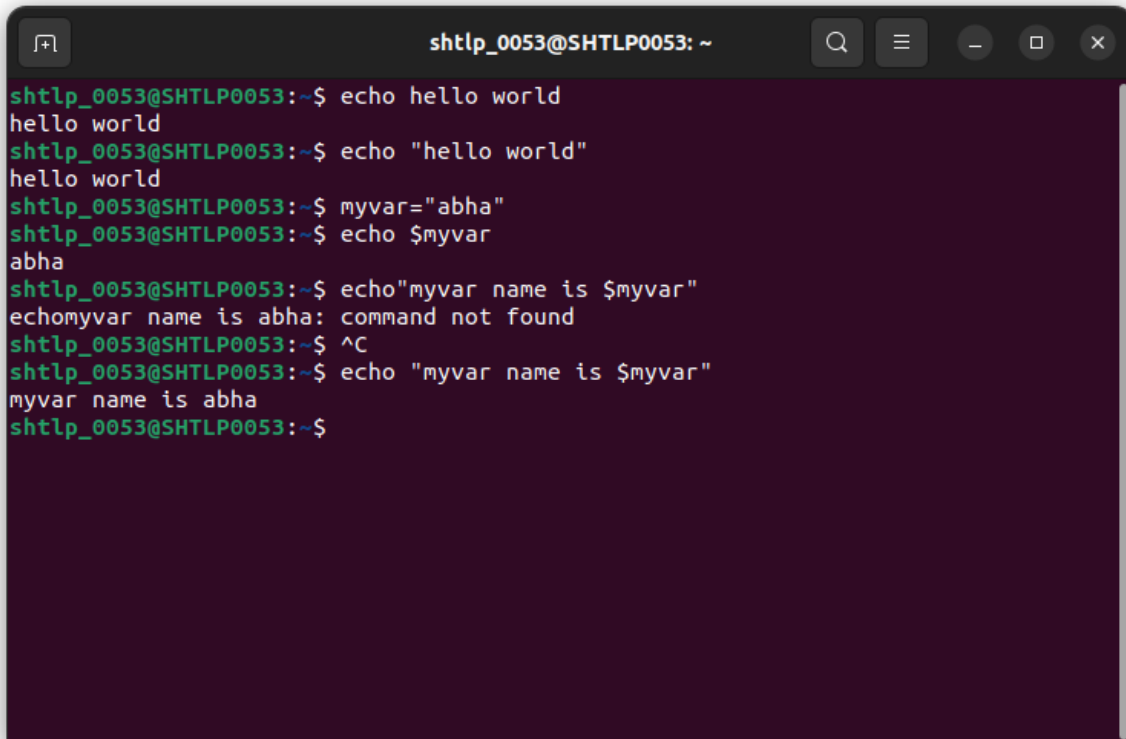
25)ps -us

This will give u all list of running processor

26) ps aux


```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ ps -aux  
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND  
root         1  0.0  0.0 166756 11632 ?        Ss   10:42    0:01 /sbin/init sp  
root         2  0.0  0.0      0     0 ?        S    10:42    0:00 [kthreadd]  
root         3  0.0  0.0      0     0 ?        I<   10:42    0:00 [rcu_gp]  
root         4  0.0  0.0      0     0 ?        I<   10:42    0:00 [rcu_par_gp]  
root         5  0.0  0.0      0     0 ?        I<   10:42    0:00 [netns]  
root         7  0.0  0.0      0     0 ?        I<   10:42    0:00 [kworker/0:0H  
root        10  0.0  0.0      0     0 ?        I<   10:42    0:00 [mm_percpu_wq  
root        11  0.0  0.0      0     0 ?        S    10:42    0:00 [rcu_tasks_ru  
root        12  0.0  0.0      0     0 ?        S    10:42    0:00 [rcu_tasks_tr  
root        13  0.0  0.0      0     0 ?        S    10:42    0:00 [ksoftirqd/0]  
root        14  0.1  0.0      0     0 ?        I    10:42    0:08 [rcu_sched]  
root        15  0.0  0.0      0     0 ?        S    10:42    0:00 [migration/0]  
root        16  0.0  0.0      0     0 ?        S    10:42    0:00 [idle_inject/  
root        17  0.0  0.0      0     0 ?        S    10:42    0:00 [cpuhp/0]  
root        18  0.0  0.0      0     0 ?        S    10:42    0:00 [cpuhp/1]  
root        19  0.0  0.0      0     0 ?        S    10:42    0:00 [idle_inject/  
root        20  0.0  0.0      0     0 ?        S    10:42    0:00 [migration/1]  
root        21  0.0  0.0      0     0 ?        S    10:42    0:00 [ksoftirqd/1]  
root        23  0.0  0.0      0     0 ?        I<   10:42    0:00 [kworker/1:0H  
root        24  0.0  0.0      0     0 ?        S    10:42    0:00 [cpuhp/2]  
root        25  0.0  0.0      0     0 ?        S    10:42    0:00 [idle_inject/  
root        26  0.0  0.0      0     0 ?        S    10:42    0:00 [migration/2]
```

- 27) ps -U [user_name]: get processes of a specific user
- 28) ps -C [process_name] : get instances of a program
- 29) echo : the echo command can be used for displaying a line of string/text that is passed as the arguments.
- 30)-variables:

A terminal window titled 'shtlp_0053@SHTLP0053: ~' with standard window controls. The terminal shows a series of commands and their outputs: 'echo hello world' outputs 'hello world'; 'echo "hello world"' outputs 'hello world'; 'myvar="abha"' sets a variable; 'echo \$myvar' outputs 'abha'; 'echo "myvar name is \$myvar"' outputs 'echomyvar name is abha: command not found' (likely a typo for 'echo'); pressing '^C' (Ctrl-C) is shown; and finally 'echo "myvar name is \$myvar"' outputs 'myvar name is abha'.

```
shtlp_0053@SHTLP0053:~$ echo hello world
hello world
shtlp_0053@SHTLP0053:~$ echo "hello world"
hello world
shtlp_0053@SHTLP0053:~$ myvar="abha"
shtlp_0053@SHTLP0053:~$ echo $myvar
abha
shtlp_0053@SHTLP0053:~$ echo "myvar name is $myvar"
echomyvar name is abha: command not found
shtlp_0053@SHTLP0053:~$ ^C
shtlp_0053@SHTLP0053:~$ echo "myvar name is $myvar"
myvar name is abha
shtlp_0053@SHTLP0053:~$
```

31) `chmod o+w x.txt`

gives others write right

32) `chmod ug=rw x.txt`

gives user and group rights

33) `chmod u-r x.txt`

take read permission from user

34) `chmod u=rw,g=rw,o+r x.txt`

35) `chmod a -rwx x.txt`

take all rights from all users,group and others

```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ chmod 777 file3.txt  
shtlp_0053@SHTLP0053:~$ ls -l file3.txt  
-rwxrwxrwx 1 shtlp_0053 shtlp_0053 0 Jun 22 22:26 file3.txt  
shtlp_0053@SHTLP0053:~$
```

```
shtlp_0053@SHTLP0053: ~/Desktop  
shtlp_0053@SHTLP0053:~$ cd Desktop  
shtlp_0053@SHTLP0053:~/Desktop$ ls -l  
total 16  
drwxrwxr-x 2 shtlp_0053 shtlp_0053 4096 Jun 22 22:46 image  
drwxrwxr-x 2 shtlp_0053 shtlp_0053 4096 Jun 22 12:48 linux  
drwxrwxr-x 8 shtlp_0053 shtlp_0053 4096 Jun 22 22:50 names  
drwxrwxr-x 3 shtlp_0053 shtlp_0053 4096 Jun 21 23:59 temp  
shtlp_0053@SHTLP0053:~/Desktop$ chmod o+x image  
shtlp_0053@SHTLP0053:~/Desktop$ ls -l  
total 16  
drwxrwxr-x 2 shtlp_0053 shtlp_0053 4096 Jun 22 22:46 image  
drwxrwxr-x 2 shtlp_0053 shtlp_0053 4096 Jun 22 12:48 linux  
drwxrwxr-x 8 shtlp_0053 shtlp_0053 4096 Jun 22 22:50 names  
drwxrwxr-x 3 shtlp_0053 shtlp_0053 4096 Jun 21 23:59 temp  
shtlp_0053@SHTLP0053:~/Desktop$ chmod 0+w image  
chmod: invalid mode: '0+w'  
Try 'chmod --help' for more information.  
shtlp_0053@SHTLP0053:~/Desktop$ chmod o+w image  
shtlp_0053@SHTLP0053:~/Desktop$ chmod 777 image  
shtlp_0053@SHTLP0053:~/Desktop$ chmod 000 image  
shtlp_0053@SHTLP0053:~/Desktop$ chmod 241 image  
shtlp_0053@SHTLP0053:~/Desktop$
```

36)which:return the path name

```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ which bash  
/usr/bin/bash  
shtlp_0053@SHTLP0053:~$ ^C  
shtlp_0053@SHTLP0053:~$
```

37) nano file.sh

```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ pwd  
/home/shtlp_0053  
shtlp_0053@SHTLP0053:~$ nano linuxcommandline1.sh  
shtlp_0053@SHTLP0053:~$ ./linuxcommandline.sh  
bash: ./linuxcommandline.sh: No such file or directory  
shtlp_0053@SHTLP0053:~$ chmod +x linuxcommandline.sh  
chmod: cannot access 'linuxcommandline.sh': No such file or directory  
shtlp_0053@SHTLP0053:~$ chmod +x linuxcommandline1.sh  
shtlp_0053@SHTLP0053:~$ ./linuxcommandline1.sh  
total 160  
drwxr-x--- 22 shtlp_0053 shtlp_0053 4096 Jun 23 23:49 .  
drwxr-xr-x  3 root      root      4096 Jun 12 18:47 ..  
-rw-rw-r--  1 shtlp_0053 shtlp_0053    5 Jun 23 08:15 ashish  
-rw-----  1 shtlp_0053 shtlp_0053 3524 Jun 23 18:12 .bash_history  
-rw-r--r--  1 shtlp_0053 shtlp_0053  220 Jun 12 18:47 .bash_logout  
-rw-r--r--  1 shtlp_0053 shtlp_0053 3771 Jun 12 18:47 .bashrc  
drwx----- 16 shtlp_0053 shtlp_0053 4096 Jun 21 21:56 .cache  
drwx----- 19 shtlp_0053 shtlp_0053 4096 Jun 23 08:34 .config  
drwxr-xr-x  6 shtlp_0053 shtlp_0053 4096 Jun 23 18:12 Desktop  
-rw-rw-r--  1 shtlp_0053 shtlp_0053    0 Jun 23 15:29 dir  
drwxr-xr-x  2 shtlp_0053 shtlp_0053 4096 Jun 21 16:51 Documents  
drwxr-xr-x  2 shtlp_0053 shtlp_0053 4096 Jun 23 21:49 Downloads  
-rw-rw-r--  1 shtlp_0053 shtlp_0053   23 Jun 22 22:21 file1  
-rw-rw-r--  1 shtlp_0053 shtlp_0053   25 Jun 22 22:25 file1.txt
```

38)-useradd:creating new user

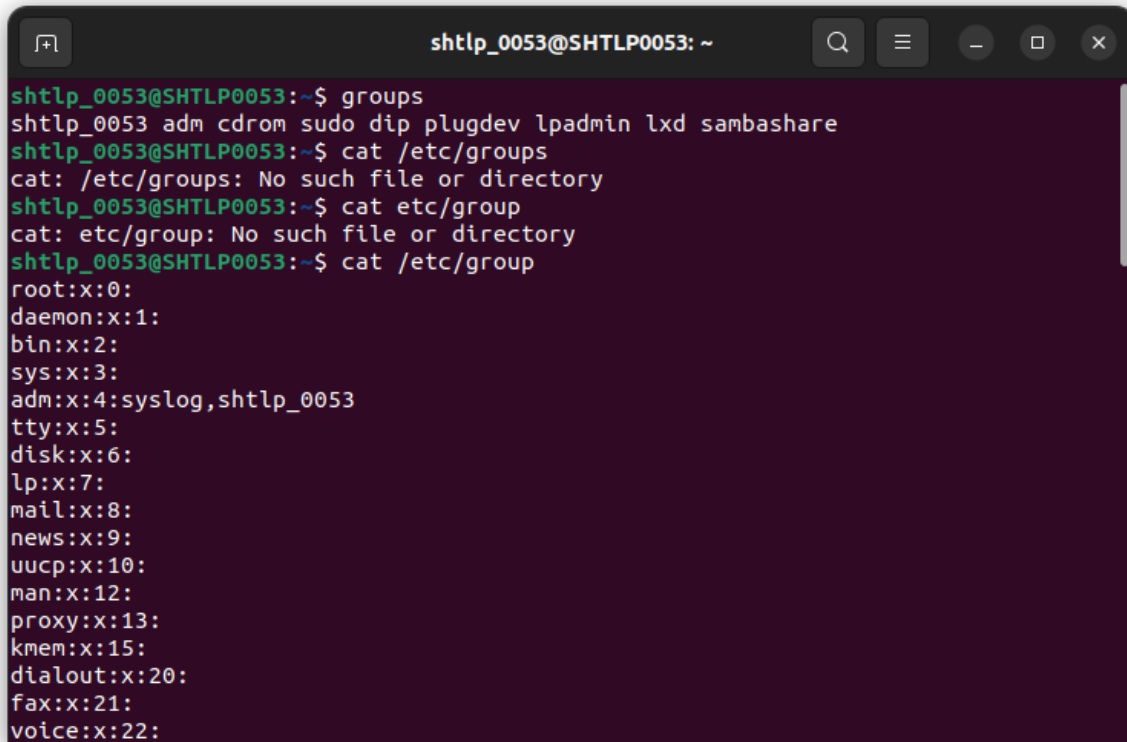
```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ sudo uderadd mark -m -s /bin/bash -g users -c "my commen  
t"  
[sudo] password for shtlp_0053:  
sudo: uderadd: command not found  
shtlp_0053@SHTLP0053:~$ sudo useradd mark -m -s /usr/bin/bash -g users -c "my co  
mment"  
shtlp_0053@SHTLP0053:~$ ls/home/  
bash: ls/home/: No such file or directory  
shtlp_0053@SHTLP0053:~$ ls /home  
mark shtlp_0053  
shtlp_0053@SHTLP0053:~$ sudo passwd mark  
New password:  
Retype new password:  
passwd: password updated successfully  
shtlp_0053@SHTLP0053:~$
```

39)userdel:removing user

```
shtlp_0053@SHTLP0053: ~  
shtlp_0053@SHTLP0053:~$ ls/home/  
bash: ls/home/: No such file or directory  
shtlp_0053@SHTLP0053:~$ ls /home/  
mark shtlp_0053  
shtlp_0053@SHTLP0053:~$ sudo userdel mark  
[sudo] password for shtlp_0053:  
shtlp_0053@SHTLP0053:~$ ls /home/  
mark shtlp_0053  
shtlp_0053@SHTLP0053:~$ sudo userdel -r mark  
userdel: user 'mark' does not exist  
shtlp_0053@SHTLP0053:~$ ls /home/  
mark shtlp_0053  
shtlp_0053@SHTLP0053:~$ sudo rm -r /home/mark/  
shtlp_0053@SHTLP0053:~$ ls /home/  
shtlp_0053  
shtlp_0053@SHTLP0053:~$
```

40)groups

41) cat /etc/group-It shows all the group listed which are in system

A terminal window with a dark purple background and white text. The window title is 'shtlp_0053@SHTLP0053: ~'. The terminal shows the output of the 'groups' command, which lists the groups 'adm', 'cdrom', 'sudo', 'dip', 'plugdev', 'lpadmin', 'lxd', and 'smbashare'. It then shows attempts to use 'cat' to read '/etc/groups' and 'etc/group', both of which fail with the message 'No such file or directory'. Finally, it shows the output of 'cat /etc/group', which lists system groups from root to voice.

```
shtlp_0053@SHTLP0053:~$ groups
shtlp_0053 adm cdrom sudo dip plugdev lpadmin lxd sambashare
shtlp_0053@SHTLP0053:~$ cat /etc/groups
cat: /etc/groups: No such file or directory
shtlp_0053@SHTLP0053:~$ cat etc/group
cat: etc/group: No such file or directory
shtlp_0053@SHTLP0053:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,shtlp_0053
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
```

42)- sudo groupadd file-

```
shtlp_0053@SHTLP0053: ~  
systemd-oom:x:116:  
tcpdump:x:117:  
_ssh:x:118:  
avahi-autoipd:x:119:  
netdev:x:120:  
avahi:x:121:  
lpadmin:x:122:shtlp_0053  
rtkit:x:123:  
whoopsie:x:124:  
sssd:x:125:  
nm-openvpn:x:126:  
scanner:x:127:saned  
saned:x:128:  
colord:x:129:  
geoclue:x:130:  
pulse:x:131:  
pulse-access:x:132:  
gdm:x:133:  
lxd:x:134:shtlp_0053  
shtlp_0053:x:1000:  
sambashare:x:135:shtlp_0053  
shtlp_0053@SHTLP0053:~$ sudo groupadd Java  
[sudo] password for shtlp_0053:  
shtlp_0053@SHTLP0053:~$ cat /etc/group
```

```
shtlp_0053@SHTLP0053: ~  
uuidd:x:115:  
systemd-oom:x:116:  
tcpdump:x:117:  
_ssh:x:118:  
avahi-autoipd:x:119:  
netdev:x:120:  
avahi:x:121:  
lpadmin:x:122:shtlp_0053  
rtkit:x:123:  
whoopsie:x:124:  
sssd:x:125:  
nm-openvpn:x:126:  
scanner:x:127:saned  
saned:x:128:  
colord:x:129:  
geoclue:x:130:  
pulse:x:131:  
pulse-access:x:132:  
gdm:x:133:  
lxd:x:134:shtlp_0053  
shtlp_0053:x:1000:  
sambashare:x:135:shtlp_0053  
Java:x:1001:  
shtlp_0053@SHTLP0053:~$
```

43)-sudo groupdel file

```
shtlp_0053@SHTLP0053: ~  
systemd-oom:x:116:  
tcpdump:x:117:  
_ssh:x:118:  
avahi-autoipd:x:119:  
netdev:x:120:  
avahi:x:121:  
lpadmin:x:122:shtlp_0053  
rtkit:x:123:  
whoopsie:x:124:  
sssd:x:125:  
nm-openvpn:x:126:  
scanner:x:127:saned  
saned:x:128:  
colord:x:129:  
geoclue:x:130:  
pulse:x:131:  
pulse-access:x:132:  
gdm:x:133:  
lxd:x:134:shtlp_0053  
shtlp_0053:x:1000:  
sambashare:x:135:shtlp_0053  
Java:x:1001:  
shtlp_0053@SHTLP0053:~$ sudo groupdel Java  
shtlp_0053@SHTLP0053:~$
```

```
shtlp_0053@SHTLP0053: ~  
ssl-cert:x:114:  
uuidd:x:115:  
systemd-oom:x:116:  
tcpdump:x:117:  
_ssh:x:118:  
avahi-autoipd:x:119:  
netdev:x:120:  
avahi:x:121:  
lpadmin:x:122:shtlp_0053  
rtkit:x:123:  
whoopsie:x:124:  
sssd:x:125:  
nm-openvpn:x:126:  
scanner:x:127:saned  
saned:x:128:  
colord:x:129:  
geoclue:x:130:  
pulse:x:131:  
pulse-access:x:132:  
gdm:x:133:  
lxd:x:134:shtlp_0053  
shtlp_0053:x:1000:  
sambashare:x:135:shtlp_0053  
shtlp_0053@SHTLP0053:~$
```

44)- `sudo gpasswd -a username group`- you can define a user to a particular group

45) `sudo gpasswd -d username group`- you can delete a user to a particular group


```
shtlp_0053@SHTLP0053: ~  
systemd-oom:x:116:  
tcpdump:x:117:  
_ssh:x:118:  
avahi-autoipd:x:119:  
netdev:x:120:  
avahi:x:121:  
lpadmin:x:122:shtlp_0053  
rtkit:x:123:  
whoopsie:x:124:  
sssd:x:125:  
nm-openvpn:x:126:  
scanner:x:127:saned  
saned:x:128:  
colord:x:129:  
geoclue:x:130:  
pulse:x:131:  
pulse-access:x:132:  
gdm:x:133:  
lxd:x:134:shtlp_0053  
shtlp_0053:x:1000:  
sambashare:x:135:shtlp_0053  
shtlp_0053@SHTLP0053:~$ sudo gpasswd -a shtlp_0053 rtkit  
Adding user shtlp_0053 to group rtkit  
shtlp_0053@SHTLP0053:~$
```