Linux Assignment

Commad Practice

1.Manipulating Files and Directories

Basic commands for files and directories are:-

cp-copy
mv-move/rename
mkdir-make directory
rm-remove
touch-create file
cat-inserting any text

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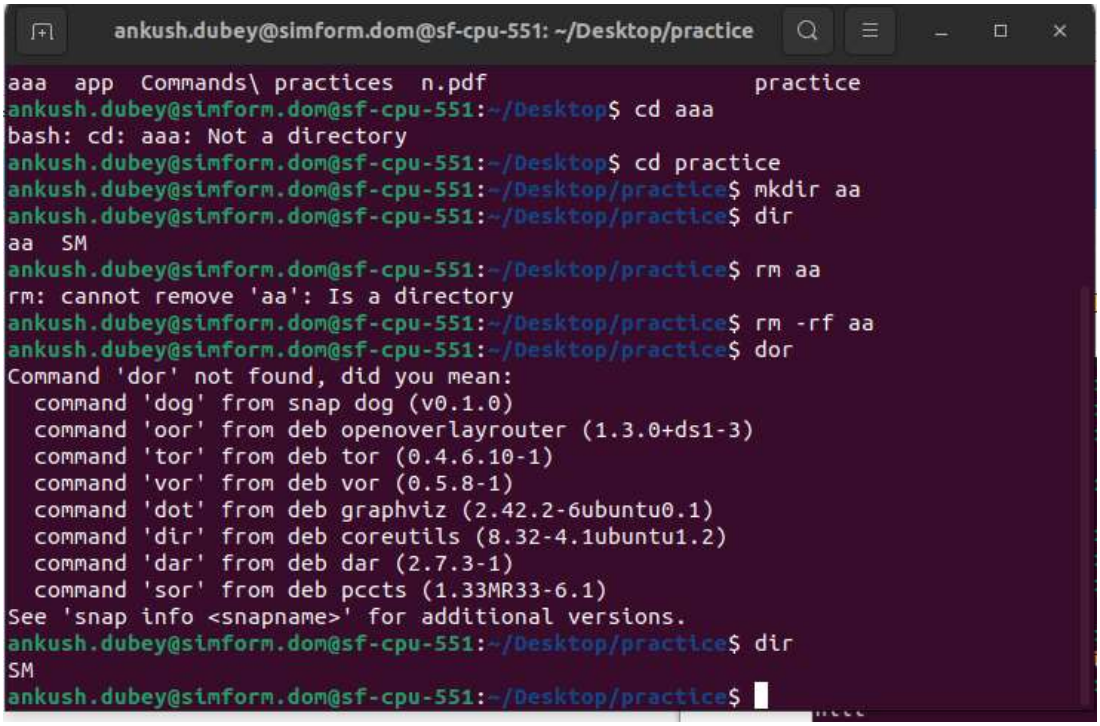

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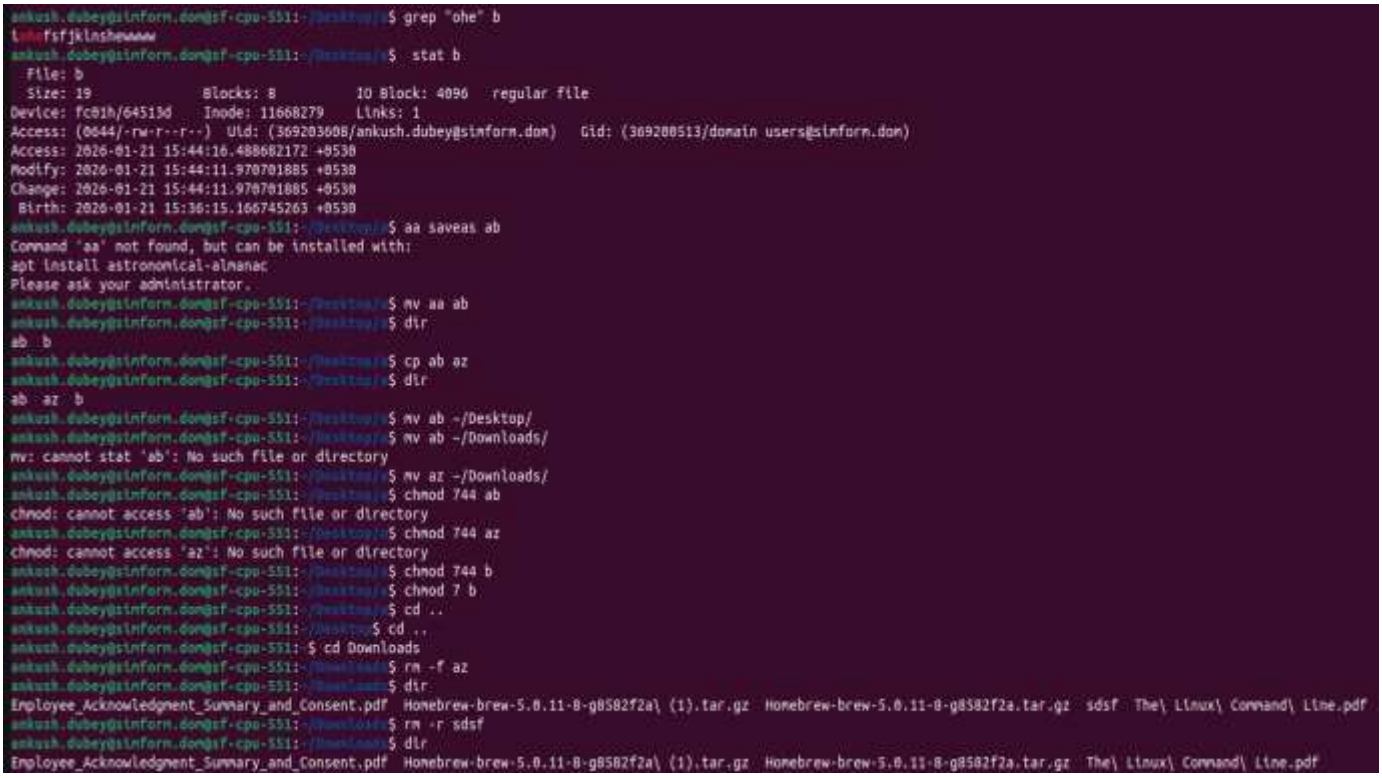
2.List all file permissions with example

Read – Can view or copy file contents

Write – Can modify file content

Execute – Can run the file (if its executable)



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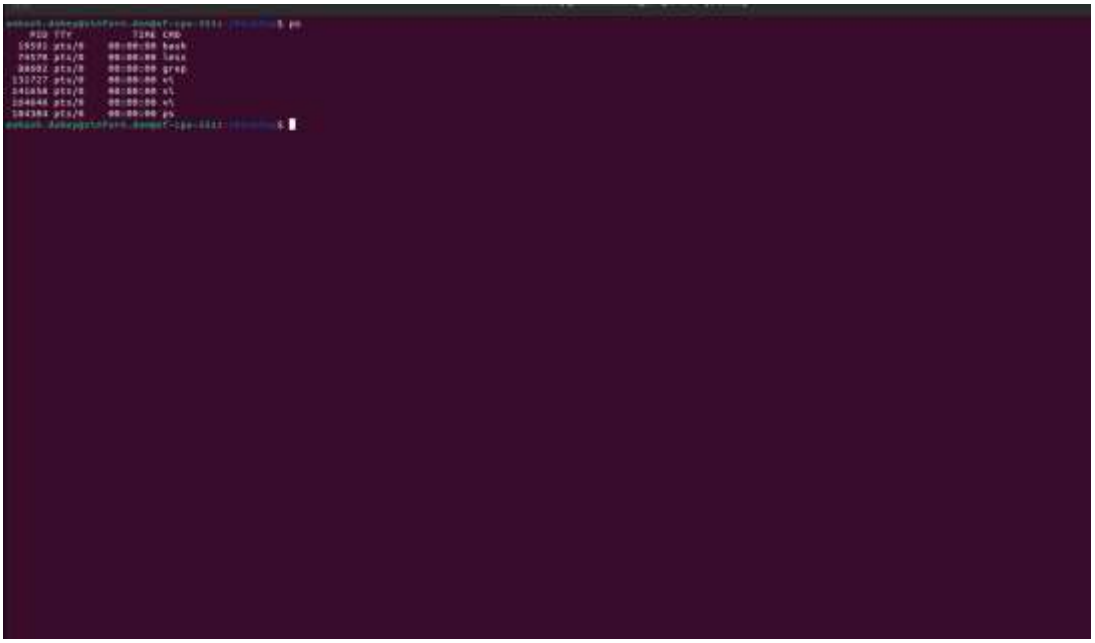
3.List all running process

command:-

ps(currently running processes).



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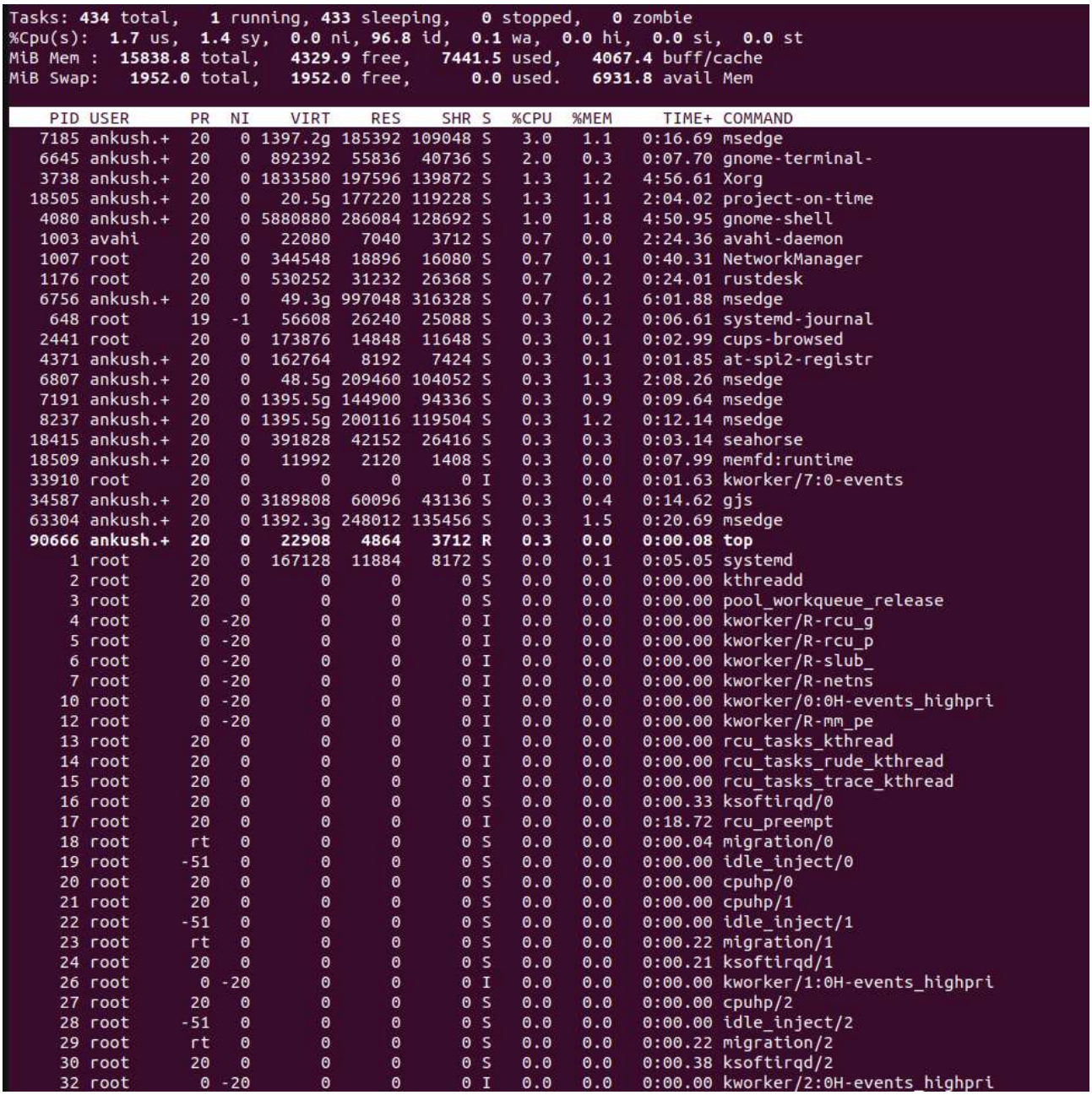
command :top(all tasks)



```
Tasks: 434 total,   1 running, 433 sleeping,   0 stopped,   0 zombie
%Cpu(s):  1.7 us,  1.4 sy,  0.0 ni, 96.8 id,  0.1 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  15838.8 total,   4329.9 free,   7441.5 used,   4067.4 buff/cache
MiB Swap:   1952.0 total,   1952.0 free,      0.0 used.   6931.8 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   7185 ankush.+  20   0 1397.2g 185392 109048 S   3.0   1.1   0:16.69 msedge
   6645 ankush.+  20   0  892392  55836  40736 S   2.0   0.3   0:07.70 gnome-terminal-
   3738 ankush.+  20   0 1833580 197596 139872 S   1.3   1.2   4:56.61 Xorg
  18505 ankush.+  20   0   20.5g 177220 119228 S   1.3   1.1   2:04.02 project-on-time
   4080 ankush.+  20   0 5880880 286084 128692 S   1.0   1.8   4:50.95 gnome-shell
   1003 avahi     20   0   22080   7040   3712 S   0.7   0.0   2:24.36 avahi-daemon
   1007 root      20   0  344548  18896  16080 S   0.7   0.1   0:40.31 NetworkManager
   1176 root      20   0  530252  31232  26368 S   0.7   0.2   0:24.01 rustdesk
   6756 ankush.+  20   0   49.3g 997048 316328 S   0.7   6.1   6:01.88 msedge
    648 root      19  -1   56608  26240  25088 S   0.3   0.2   0:06.61 systemd-journal
   2441 root      20   0  173876  14848  11648 S   0.3   0.1   0:02.99 cups-browsed
   4371 ankush.+  20   0  162764   8192   7424 S   0.3   0.1   0:01.85 at-spi2-registr
   6807 ankush.+  20   0   48.5g 209460 104052 S   0.3   1.3   2:08.26 msedge
   7191 ankush.+  20   0 1395.5g 144900  94336 S   0.3   0.9   0:09.64 msedge
   8237 ankush.+  20   0 1395.5g 200116 119504 S   0.3   1.2   0:12.14 msedge
  18415 ankush.+  20   0  391828  42152  26416 S   0.3   0.3   0:03.14 seahorse
  18509 ankush.+  20   0   11992   2120   1408 S   0.3   0.0   0:07.99 memfd:runtime
  33910 root      20   0       0      0      0 I   0.3   0.0   0:01.63 kworker/7:0-events
  34587 ankush.+  20   0 3189808  60096  43136 S   0.3   0.4   0:14.62 gjs
  63304 ankush.+  20   0 1392.3g 248012 135456 S   0.3   1.5   0:20.69 msedge
  90666 ankush.+  20   0   22908   4864   3712 R   0.3   0.0   0:00.08 top
      1 root      20   0  167128  11884   8172 S   0.0   0.1   0:05.05 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root      20   0       0      0      0 S   0.0   0.0   0:00.00 pool_workqueue_release
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-rcu_g
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-rcu_p
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-slub_
      7 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-netns
     10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
     12 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-mm_pe
     13 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_kthread
     14 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
     15 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
     16 root      20   0       0      0      0 S   0.0   0.0   0:00.33 ksoftirqd/0
     17 root      20   0       0      0      0 I   0.0   0.0   0:18.72 rcu_preempt
     18 root      rt   0       0      0      0 S   0.0   0.0   0:00.04 migration/0
     19 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
     20 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     21 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
     22 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
     23 root      rt   0       0      0      0 S   0.0   0.0   0:00.22 migration/1
     24 root      20   0       0      0      0 S   0.0   0.0   0:00.21 ksoftirqd/1
     26 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri
     27 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/2
     28 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/2
     29 root      rt   0       0      0      0 S   0.0   0.0   0:00.22 migration/2
     30 root      20   0       0      0      0 S   0.0   0.0   0:00.38 ksoftirqd/2
     32 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri
```

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4.Find particular process by it's name

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/practice$ pgrep bash
29653
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/practice$
```

5.

How to kill any particular process

Command: kill process_id

forcefully: kill -9 processs_id

```
ankush.dubey@simform.dom@sf-cpu-551:~$ vi
ankush.dubey@simform.dom@sf-cpu-551:~$ ps
    PID TTY          TIME CMD
  76438 pts/0    00:00:00 bash
  76565 pts/0    00:00:00 ps
ankush.dubey@simform.dom@sf-cpu-551:~$ kill -9 75565
bash: kill: (75565) - No such process
ankush.dubey@simform.dom@sf-cpu-551:~$ kill -9 76438
```

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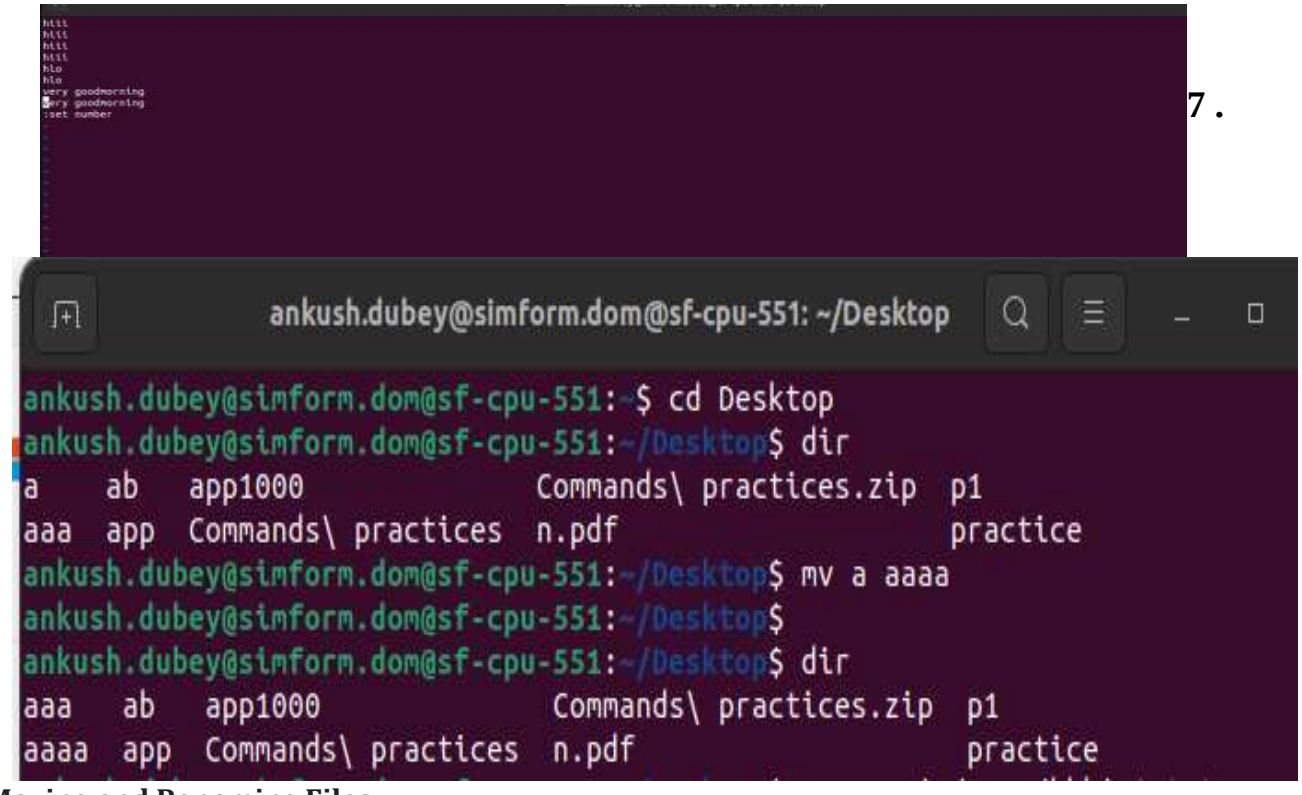
6. Vi or Vim for file editing

Vi file_name → For creating a file
i→ insert text
dd-delete texts
yy-copy
:wq → save and exit
:q! → exit without save
/ → search
:q → quit
%s/replacer/replacing/y → for substituete

7 .



Moving and Renaming Files

command- mv file1 file2

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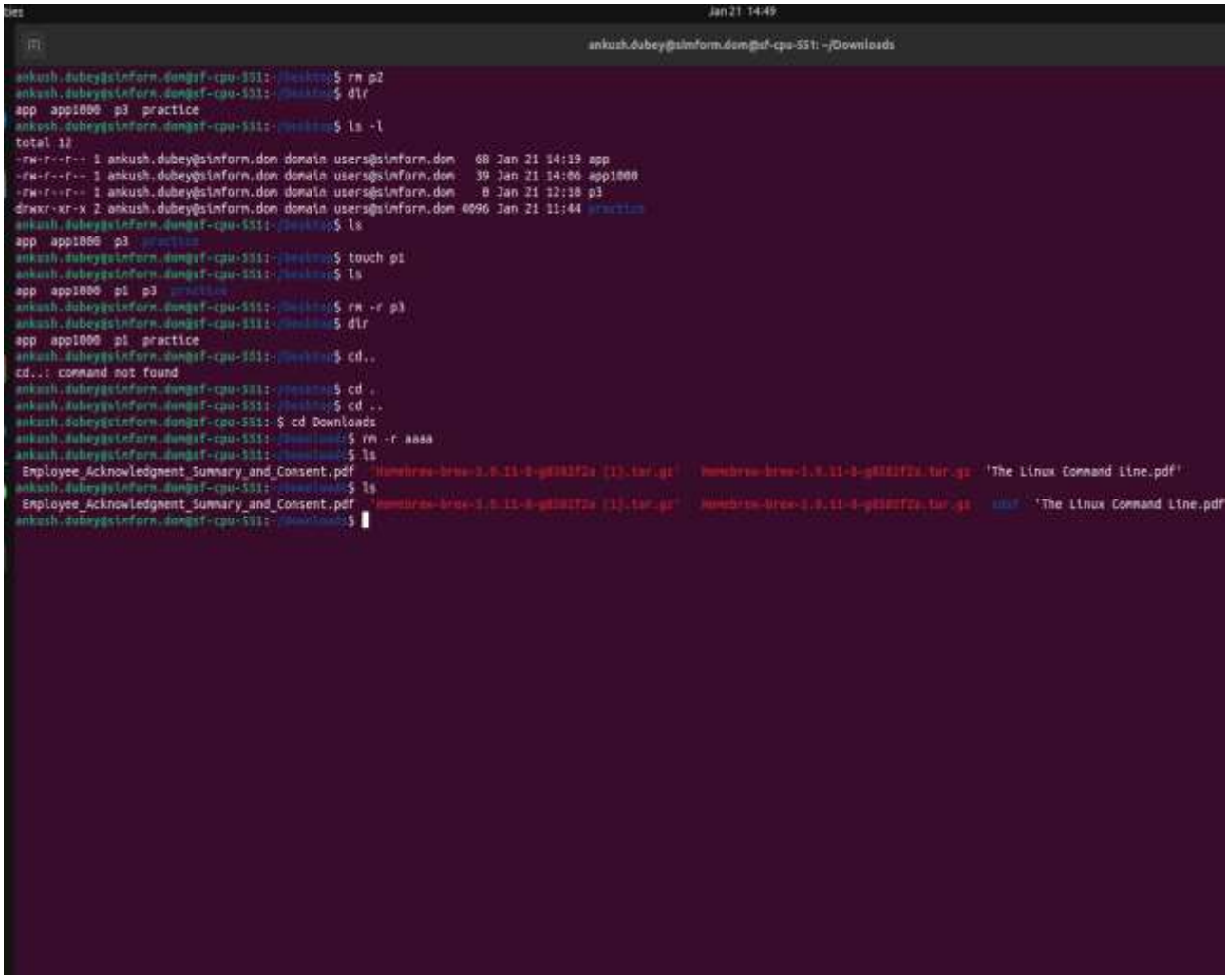
8. Remove Files and Directories

command:- rm file_name(removes file)
rm -r dir_name(remove dir)
rm -f file_name(remove file)



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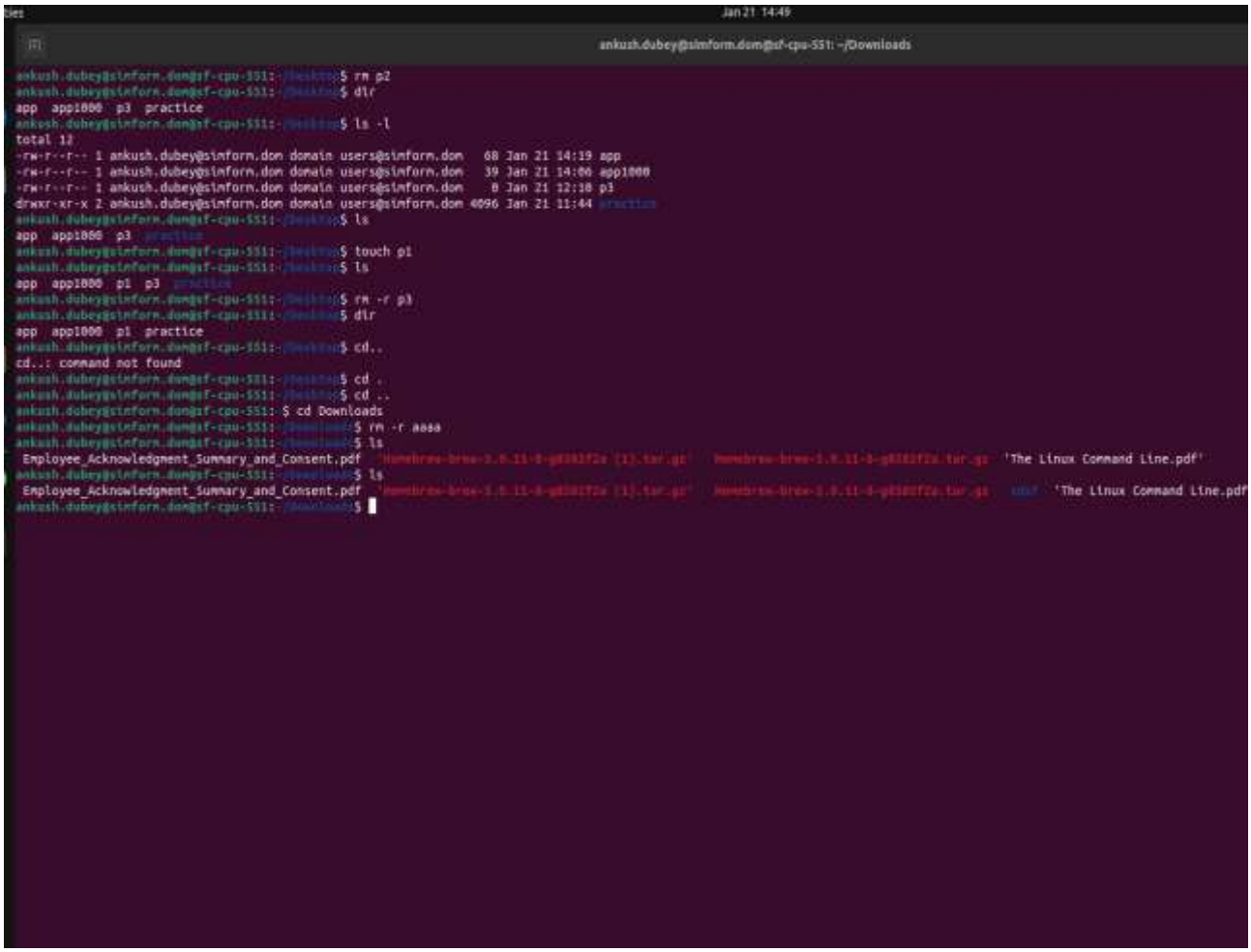
9. List the directory contents

command:- dir



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10.How I can get the path of working directory.

Command: pwd(provides path of working directory)

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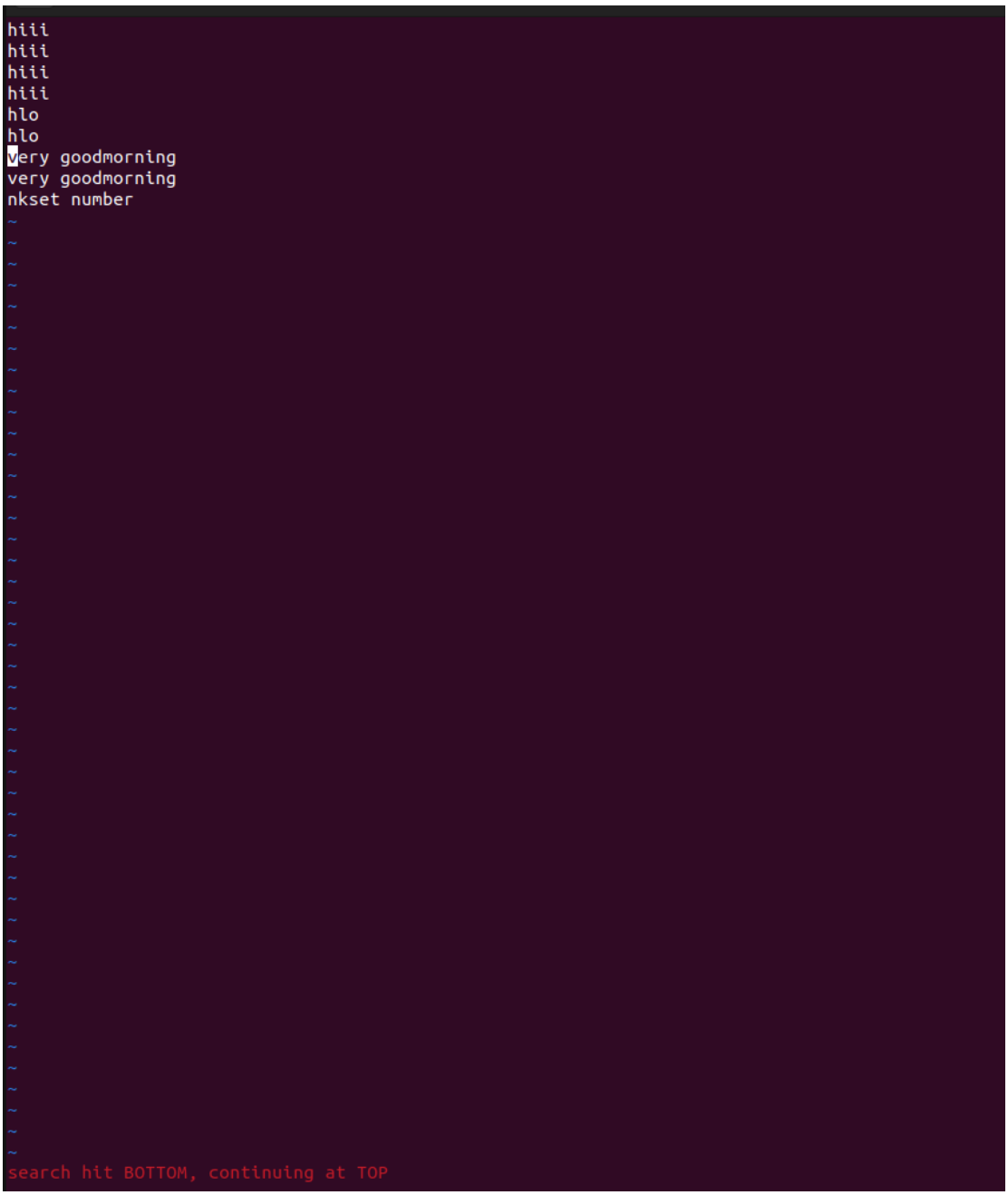
11.How to Search in Vim/Vi

command: /



12.How Do You Do A Search And Replace in Vim/Vi

Command : - %s/replacer/replacement/y

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13.How we can save and exit from Vim/Vi file.

Command:- :wq-Save and exit
:q-exit
:q! Exit without save

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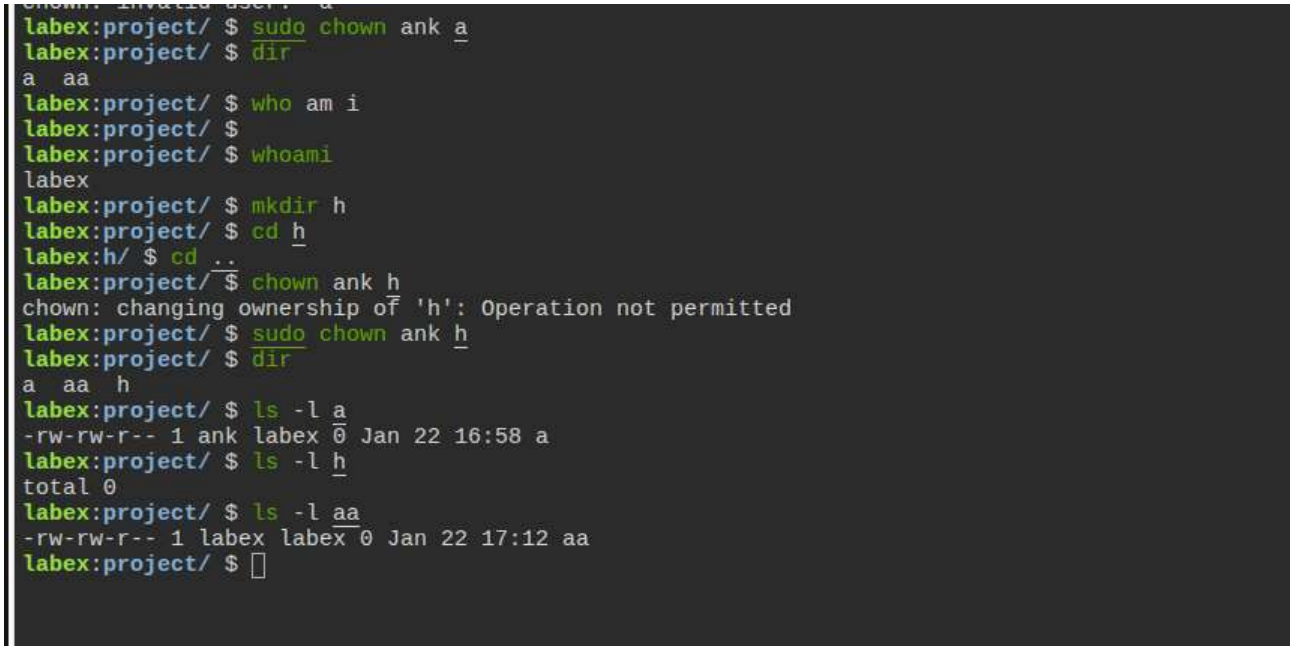
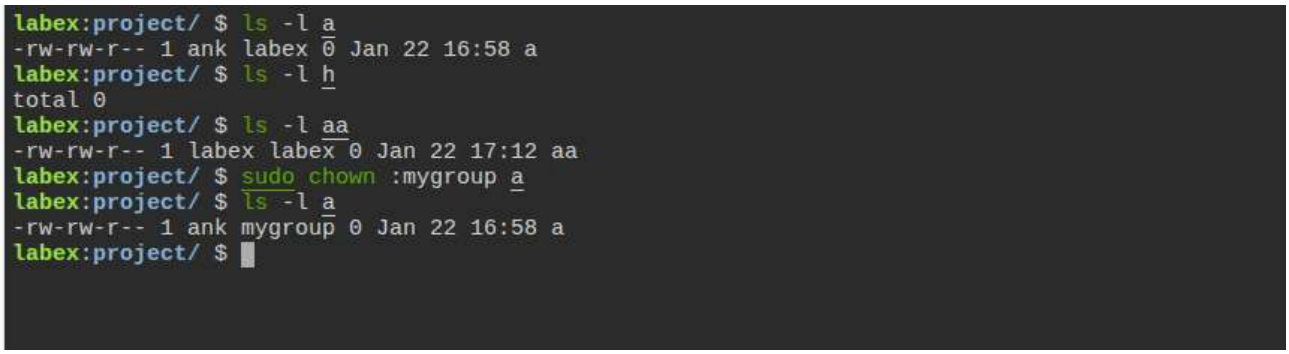
14. Change file owner and group.

Command: sudo useadd username
sudo chown name file_name
sudo groupadd group_name
sudo chown :mygroup file_name





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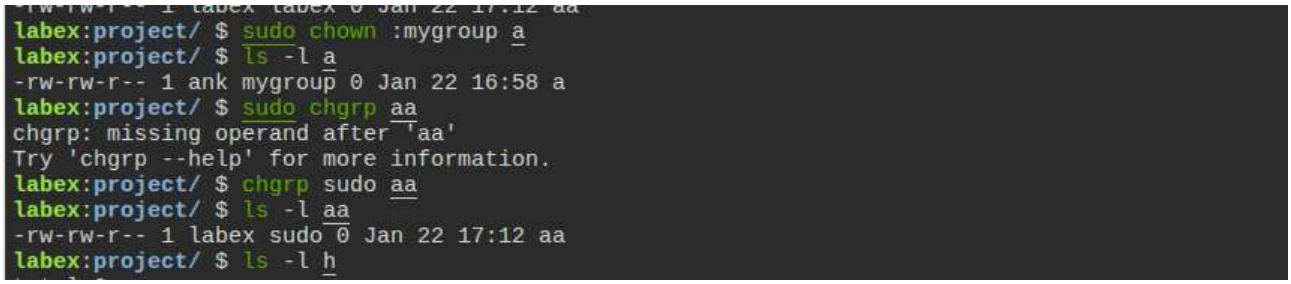
15. Change group ownership

command:- chgrp groupname file_name