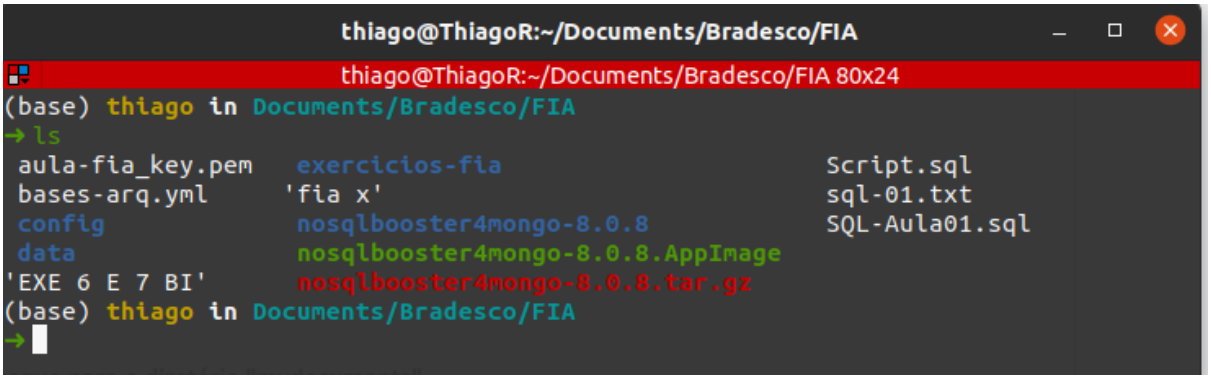
EXERCÍCIOS LINUX

THIAGO RUIZ ANICETO

1) Liste os arquivos e diretórios no diretório atual.

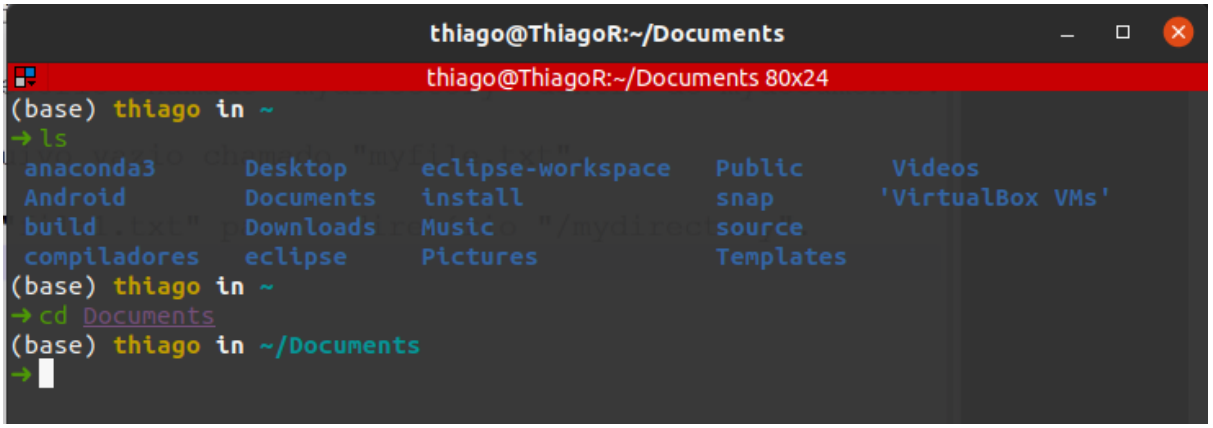
nome do comando
print do resultado do comando

➜ ls



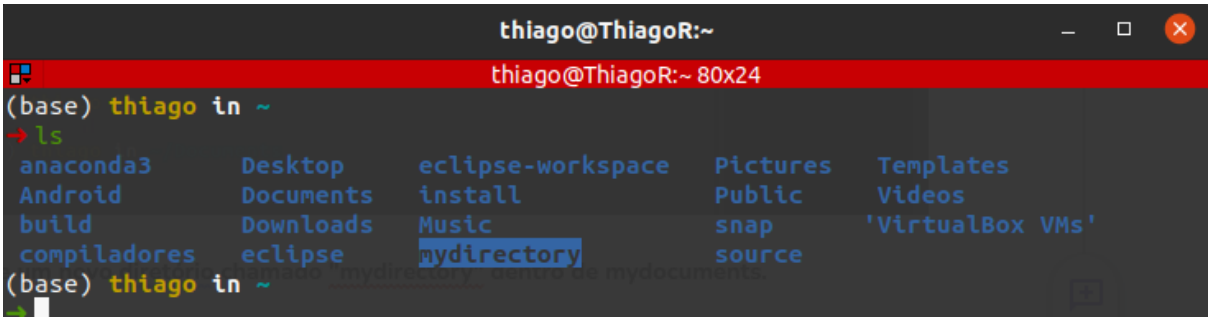
2) Navegue para o diretório "mydocuments".

➜ cd mydocuments



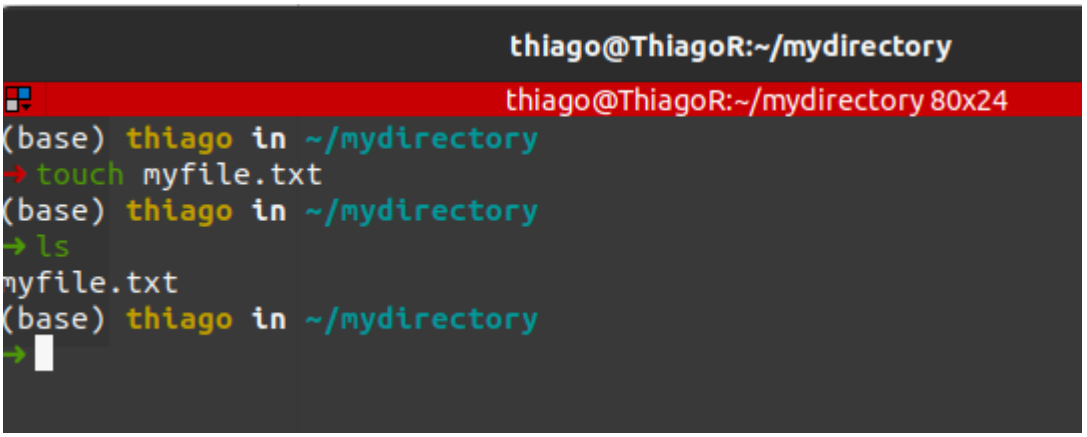
3) Crie um novo diretório chamado "mydirectory" dentro de mydocuments.

➜ mkdir mydirectory



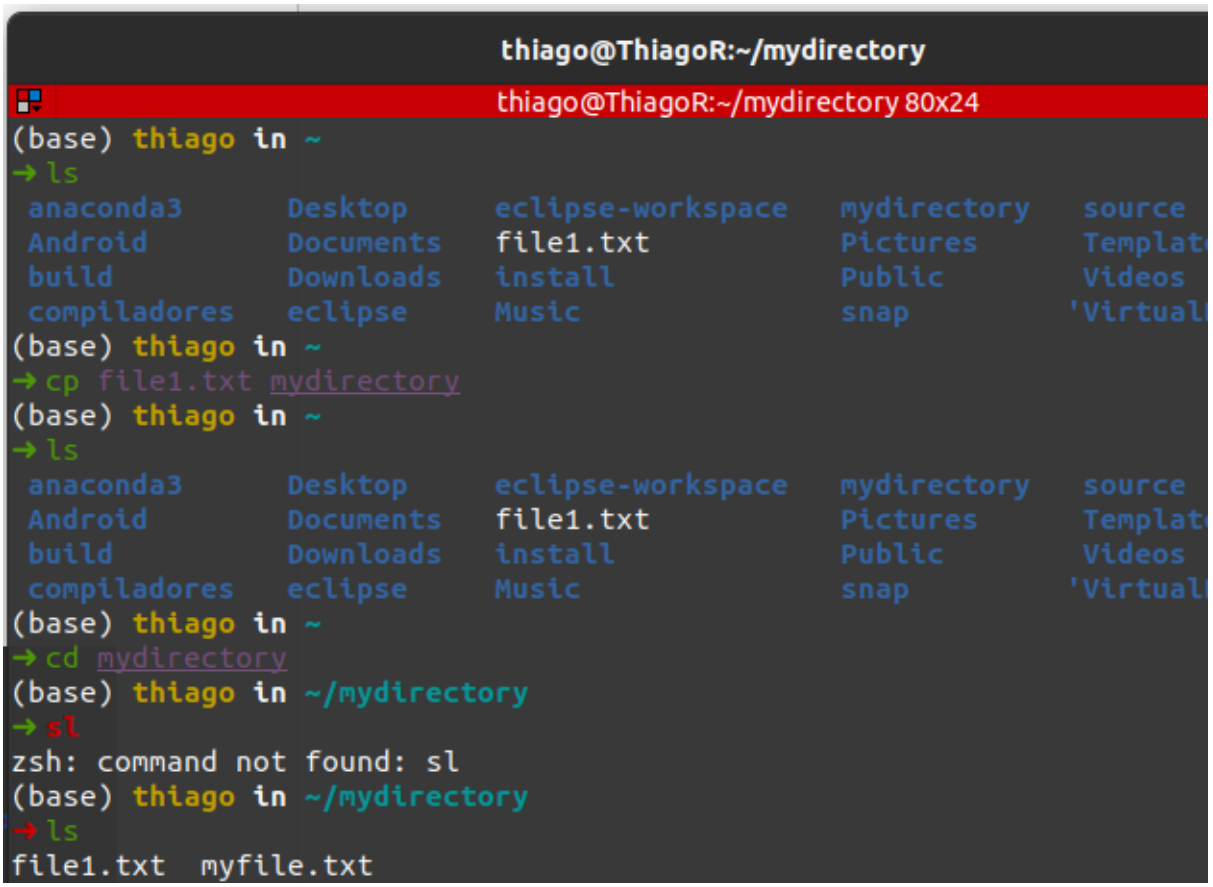
4) Crie um novo arquivo vazio chamado "myfile.txt".

➜ touch myfile.txt



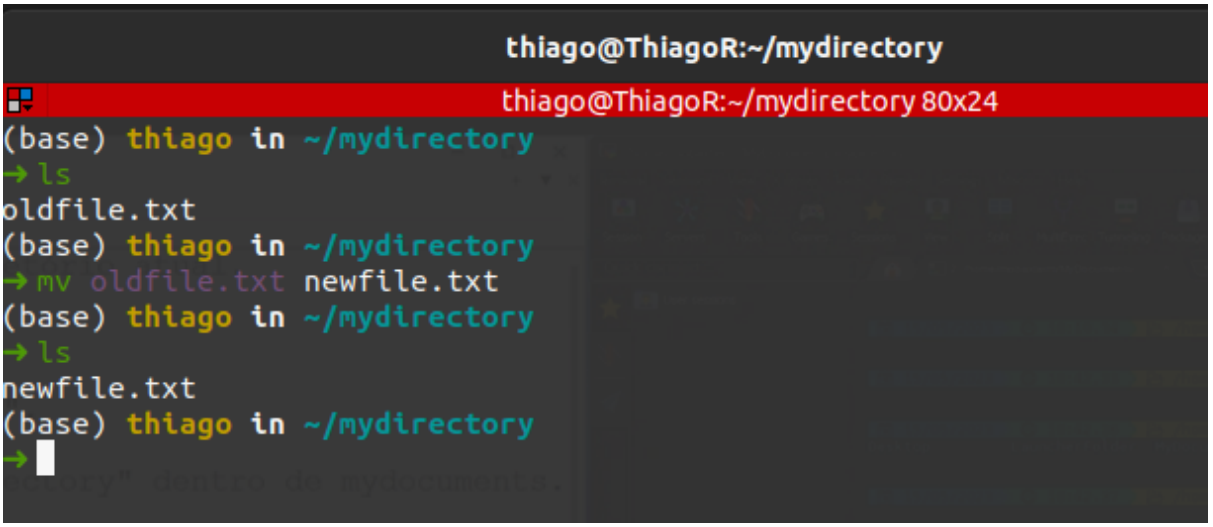
5) Copie o arquivo "file1.txt" para o diretório "/mydirectory".

➜ cp file1.txt mydirectory



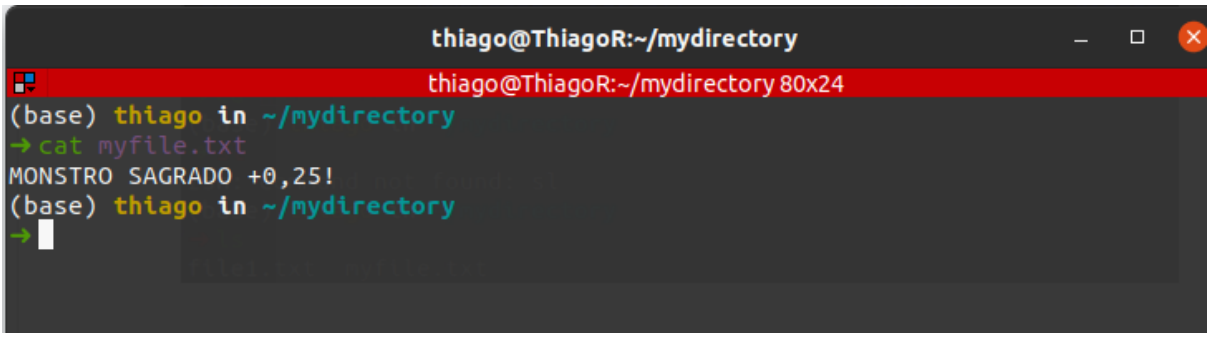
6) Renomeie o arquivo "oldfile.txt" para "newfile.txt".

➜ mv oldfile.txt newfile.txt



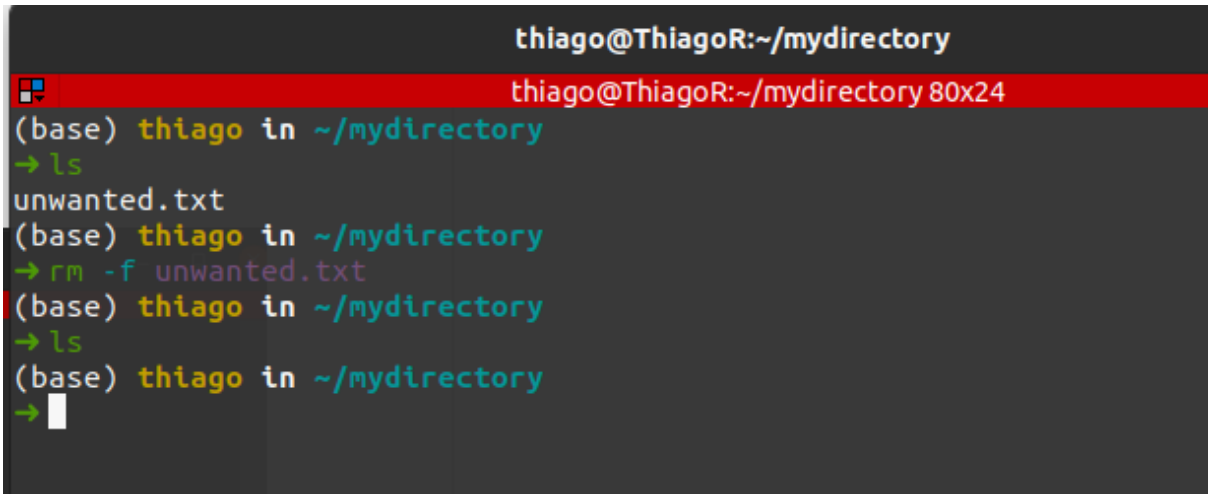
7) Insira informações e Mostre o conteúdo do arquivo "myfile.txt".

➜ cat myfile.txt



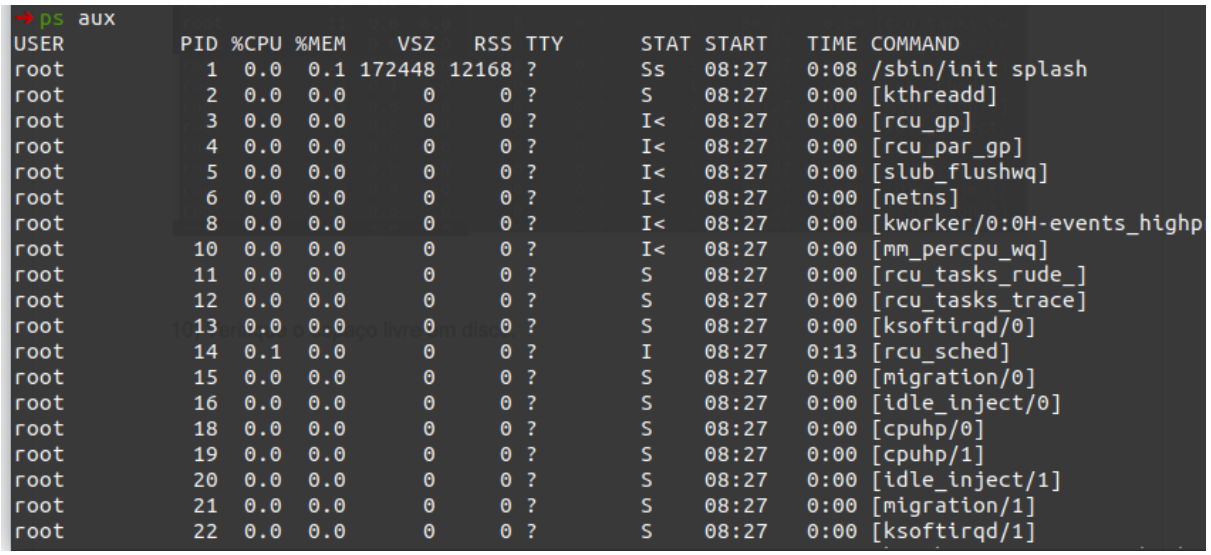
8) Remova o arquivo "unwanted.txt".

➜ rm -f unwanted.txt



9) Liste os processos em execução no sistema.

➜ ps aux



```
➜ ps aux
USER         PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  0.0  0.1 172448 12168 ?        Ss   08:27   0:08 /sbin/init splash
root           2  0.0  0.0      0     0 ?        S    08:27   0:00 [kthreadd]
root           3  0.0  0.0      0     0 ?        I<   08:27   0:00 [rcu_gp]
root           4  0.0  0.0      0     0 ?        I<   08:27   0:00 [rcu_par_gp]
root           5  0.0  0.0      0     0 ?        I<   08:27   0:00 [slub_flushwq]
root           6  0.0  0.0      0     0 ?        I<   08:27   0:00 [netns]
root           8  0.0  0.0      0     0 ?        I<   08:27   0:00 [kworker/0:0H-events_highp
root          10  0.0  0.0      0     0 ?        I<   08:27   0:00 [mm_percpu_wq]
root          11  0.0  0.0      0     0 ?        S    08:27   0:00 [rcu_tasks_rude_]
root          12  0.0  0.0      0     0 ?        S    08:27   0:00 [rcu_tasks_trace]
root          13  0.0  0.0      0     0 ?        S    08:27   0:00 [ksoftirqd/0]
root          14  0.1  0.0      0     0 ?        I    08:27   0:13 [rcu_sched]
root          15  0.0  0.0      0     0 ?        S    08:27   0:00 [migration/0]
root          16  0.0  0.0      0     0 ?        S    08:27   0:00 [idle_inject/0]
root          18  0.0  0.0      0     0 ?        S    08:27   0:00 [cpuhp/0]
root          19  0.0  0.0      0     0 ?        S    08:27   0:00 [cpuhp/1]
root          20  0.0  0.0      0     0 ?        S    08:27   0:00 [idle_inject/1]
root          21  0.0  0.0      0     0 ?        S    08:27   0:00 [migration/1]
root          22  0.0  0.0      0     0 ?        S    08:27   0:00 [ksoftirqd/1]
```

10) Verifique o espaço livre em disco.

➜ **df -h**

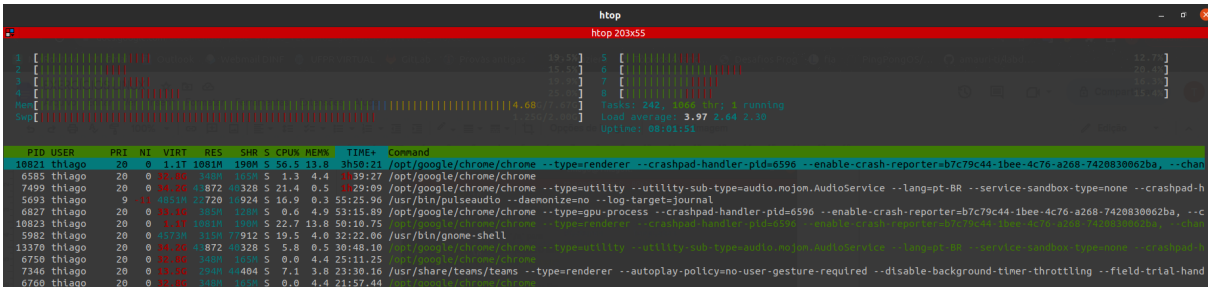
```
(base) thiago in ~/mydirectory
➜
(base) thiago in ~/mydirectory
➜ df -h
Sist. Arq.      Tam. Usado Disp. Uso% Montado em
udev            3,8G     0  3,8G   0% /dev
tmpfs           786M  2,5M  784M   1% /run
/dev/sda2       439G  163G  254G  40% /
tmpfs           3,9G  236M  3,7G   7% /dev/shm
tmpfs           5,0M  4,0K  5,0M   1% /run/lock
tmpfs           3,9G     0  3,9G   0% /sys/fs/cgroup
/dev/loop0       17M   17M     0 100% /snap/azure-cli/7
/dev/loop1      128K  128K     0 100% /snap/bare/5
/dev/loop2       67M   67M     0 100% /snap/bzoing/680
/dev/loop4       67M   67M     0 100% /snap/bzoing/681
/dev/loop3      303M  303M     0 100% /snap/code/128
/dev/loop5      117M  117M     0 100% /snap/core/14946
/dev/loop7       74M   74M     0 100% /snap/core22/634
/dev/loop6       56M   56M     0 100% /snap/core18/2745
/dev/loop9       64M   64M     0 100% /snap/core20/1852
/dev/loop8      294M  294M     0 100% /snap/dbeaver-ce/231
/dev/loop10      64M   64M     0 100% /snap/core20/1879
/dev/loop13     117M  117M     0 100% /snap/core/14784
/dev/loop14     244M  244M     0 100% /snap/dbeaver-ce/234
/dev/loop11      56M   56M     0 100% /snap/core18/2721
/dev/loop16     165M  165M     0 100% /snap/gnome-3-28-1804/194
/dev/loop12     303M  303M     0 100% /snap/code/129
/dev/loop15     165M  165M     0 100% /snap/gnome-3-28-1804/198
/dev/loop18     219M  219M     0 100% /snap/gnome-3-34-1804/93
/dev/loop17     219M  219M     0 100% /snap/gnome-3-34-1804/90
/dev/loop21     461M  461M     0 100% /snap/gnome-42-2204/102
/dev/loop19     350M  350M     0 100% /snap/gnome-3-38-2004/140
/dev/loop20     350M  350M     0 100% /snap/gnome-3-38-2004/137
/dev/loop24      13M   13M     0 100% /snap/mkdocs-carroarmato0/1
/dev/loop23      82M   82M     0 100% /snap/gtk-common-themes/1534
/dev/loop22      92M   92M     0 100% /snap/gtk-common-themes/1535
/dev/loop25     6,2M  6,2M     0 100% /snap/notepad-plus-plus/386
/dev/loop26     6,3M  6,3M     0 100% /snap/notepad-plus-plus/385
/dev/loop28      84M   84M     0 100% /snap/scrcpy/399
/dev/loop30      30M   30M     0 100% /snap/ruby/299
/dev/loop27      83M   83M     0 100% /snap/scrcpy/394
/dev/loop29      30M   30M     0 100% /snap/ruby/317
/dev/loop31      46M   46M     0 100% /snap/snap-store/638
/dev/loop33      13M   13M     0 100% /snap/snap-store/959
/dev/loop32     158M  158M     0 100% /snap/spotify/64
/dev/loop39      82M   82M     0 100% /snap/teams-for-linux/373
/dev/loop37     296M  296M     0 100% /snap/vlc/2344
/dev/loop36      54M   54M     0 100% /snap/snapd/19122
/dev/loop38      82M   82M     0 100% /snap/teams-for-linux/369
/dev/loop35      54M   54M     0 100% /snap/snapd/18933
/dev/loop42     304M  304M     0 100% /snap/wine-platform-5-stable/16
/dev/loop40     321M  321M     0 100% /snap/vlc/3078
/dev/loop43     304M  304M     0 100% /snap/wine-platform-5-stable/18
/dev/loop41     323M  323M     0 100% /snap/wine-platform-6-stable/14
/dev/loop47     452M  452M     0 100% /snap/wine-platform-7-devel-core20/23
```

11) Encontre todos os arquivos com a extensão ".txt" em documents.

➜ find mydirectory -name "*.txt"

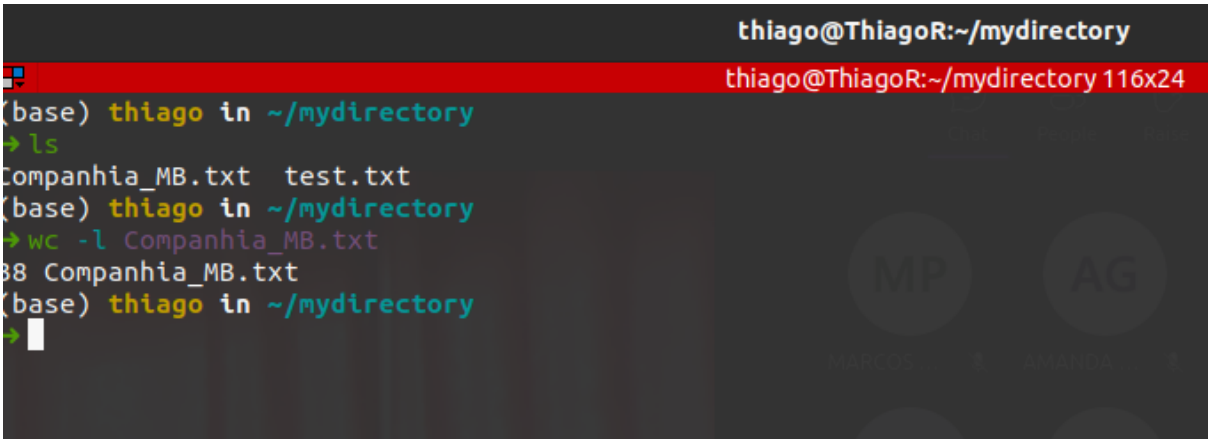
12) Liste os 10 últimos processos que estão usando memória.

➜ htop



13) Conte quantas linhas existem no arquivo "companhia_mb.txt"

➜ wc -l Companhia_MB.txt



14) Liste os 10 arquivos mais recentemente modificados no diretório atual.

➜ ls -lt | head -n 11

```
(base) thiago in Documents/Bradesco/FIA
➜ ls -lt | head -n 11
total 218116
drwxr-xr-x 5 root   root     4096 mai  4 09:02 data
-rw-rw-r-- 1 thiago thiago    495 mai  4 09:02 bases-arq.yml
-r-------- 1 thiago thiago   2498 mai  4 08:55 aula-fia_key.pem
-rw-rw-r-- 1 thiago thiago    456 mai  3 11:42 EXE 6 E 7 BI
drwxrwxr-x 3 thiago thiago   4096 mai  1 14:46 exercicios-fia
-rw-rw-r-- 1 thiago thiago   3433 mai  1 14:41 Script.sql
-rw-rw-r-- 1 thiago thiago   1180 abr 28 16:27 fia x
drwxr-xr-x 3 root   root     4096 abr 28 16:10 config
-rw-rw-r-- 1 thiago thiago   3495 abr 28 15:50 SQL-Aula01.sql
-rw-rw-r-- 1 thiago thiago   3495 abr 28 15:50 sql-01.txt
(base) thiago in Documents/Bradesco/FIA
```

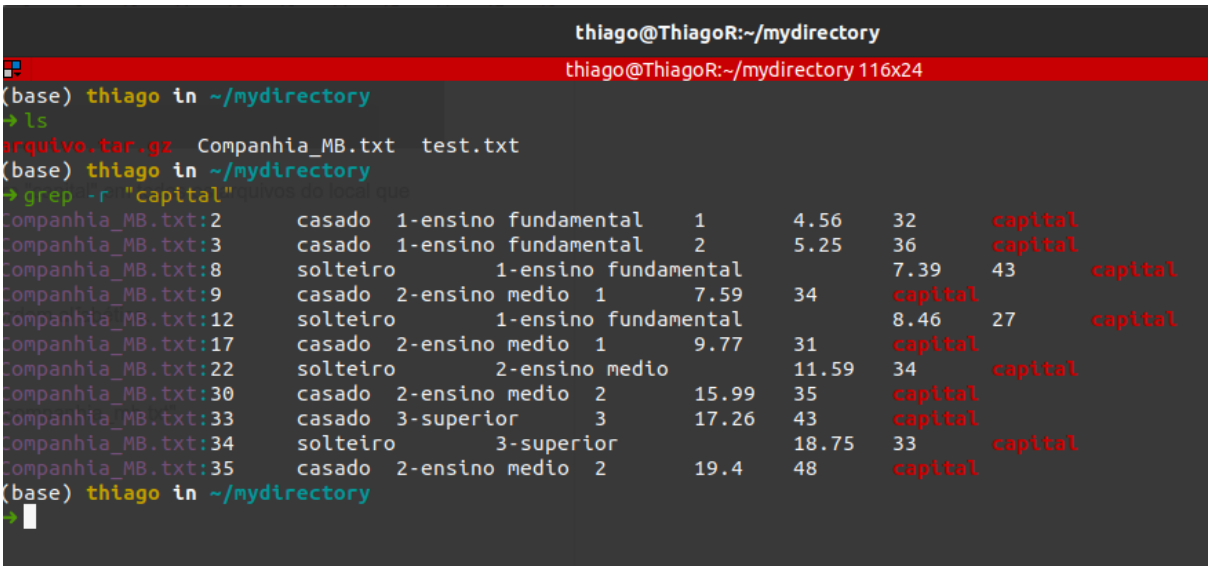
15) Crie um arquivo compactado chamado "archive.tar.gz" contendo todos os arquivos de um diretório.

➜ tar -cvzf arquivo.tar.gz .

```
(base) thiago in ~/mydirectory
➜ ls
Companhia_MB.txt  test.txt
(base) thiago in ~/mydirectory
➜ tar -cvzf arquivo.tar.gz .
./
./Companhia_MB.txt
./test.txt
(base) thiago in ~/mydirectory
➜ ls
arquivo.tar.gz  Companhia_MB.txt  test.txt
(base) thiago in ~/mydirectory
➜ ls
arquivo.tar.gz  Companhia_MB.txt  test.txt
(base) thiago in ~/mydirectory
```

16) Encontre todas as ocorrências da palavra "capital" em todos os arquivos do local que esta companhia_mb.

➜grep -r “capital”



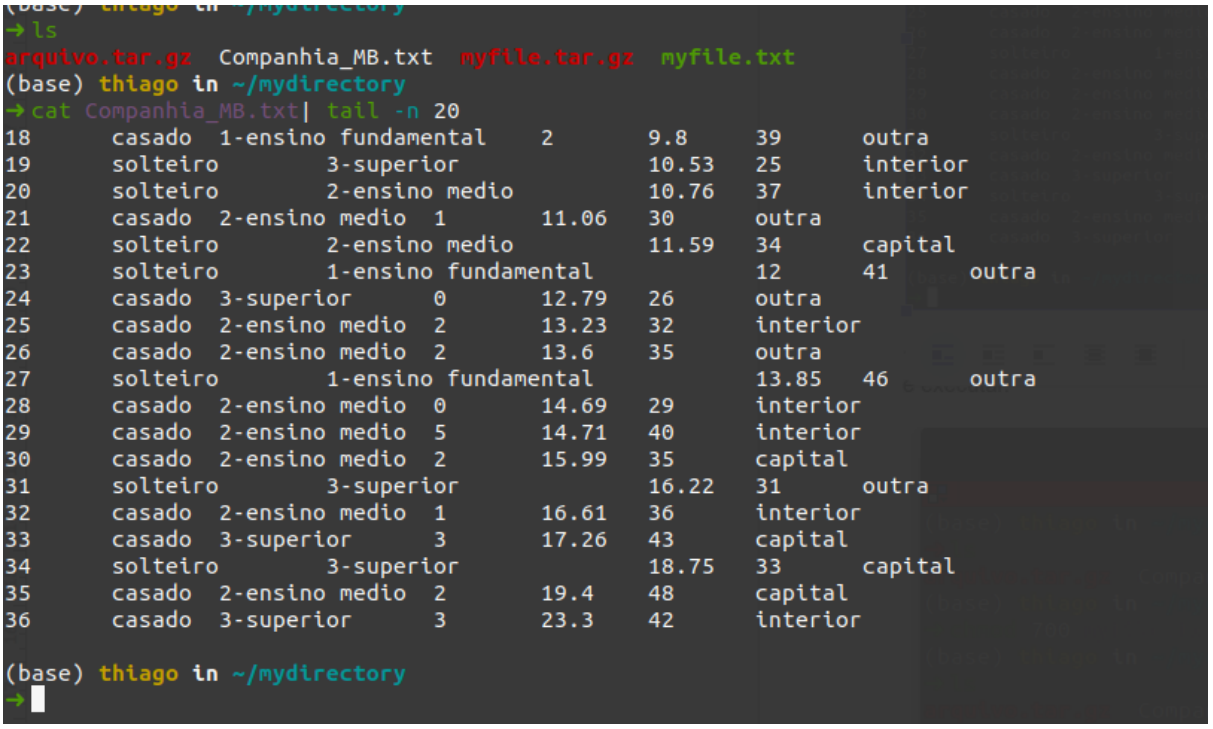
17) Liste todos os usuários do sistema em ordem alfabética.

➜ getent passwd | cut -d: -f1 | sort

```
(base) thiago in ~/mydirectory took 3m 26s
➜ getent passwd | cut -d: -f1 | sort
_apt
avahi
avahi-autoipd
backup
bin
colord
cups-pk-helper
daemon
dnsmasq
games
gdm
geoclue
glances
gnats
gnome-initial-setup
gvm
hplip
irc
kernoops
list
lp
mail
man
messagebus
mongodb
mozao
mysql
news
nm-openvpn
nobody
ntp
nvidia-persistenced
postgres
proxy
pulse
redis
root
rtkit
saned
speech-dispatcher
sshd
sync
sys
syslog
systemd-coredump
systemd-network
systemd-resolve
systemd-timesync
tcpdump
thiago
tss
```

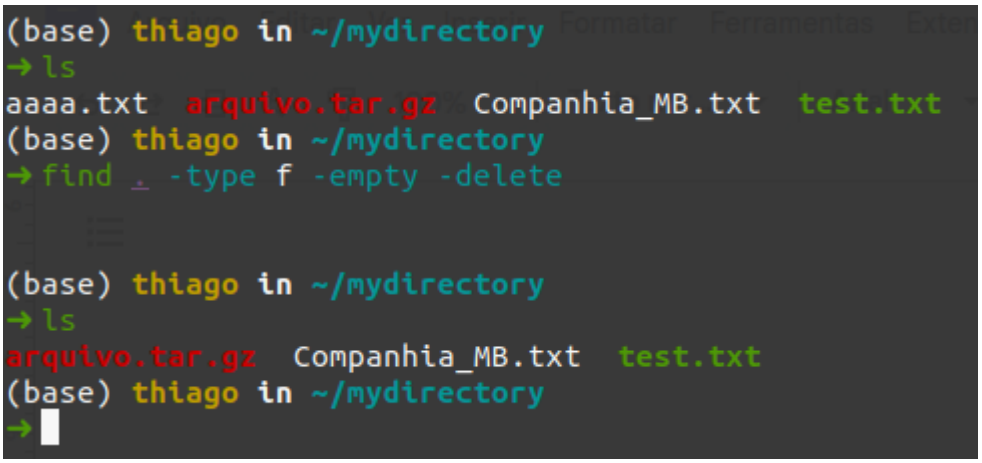
18) Mostre as últimas 20 linhas do arquivo "companhia_mb.txt".

➜cat Companhia_MB.txt| tail -n 20



19) Altere as permissões de um arquivo para que apenas o proprietário possa ler, escrever e executar.

➜ chmod 700 myfile.txt

20) Remova todos os arquivos vazios do diretório MyDocuments e seus subdiretórios.

➜ find . -type f -empty -delete