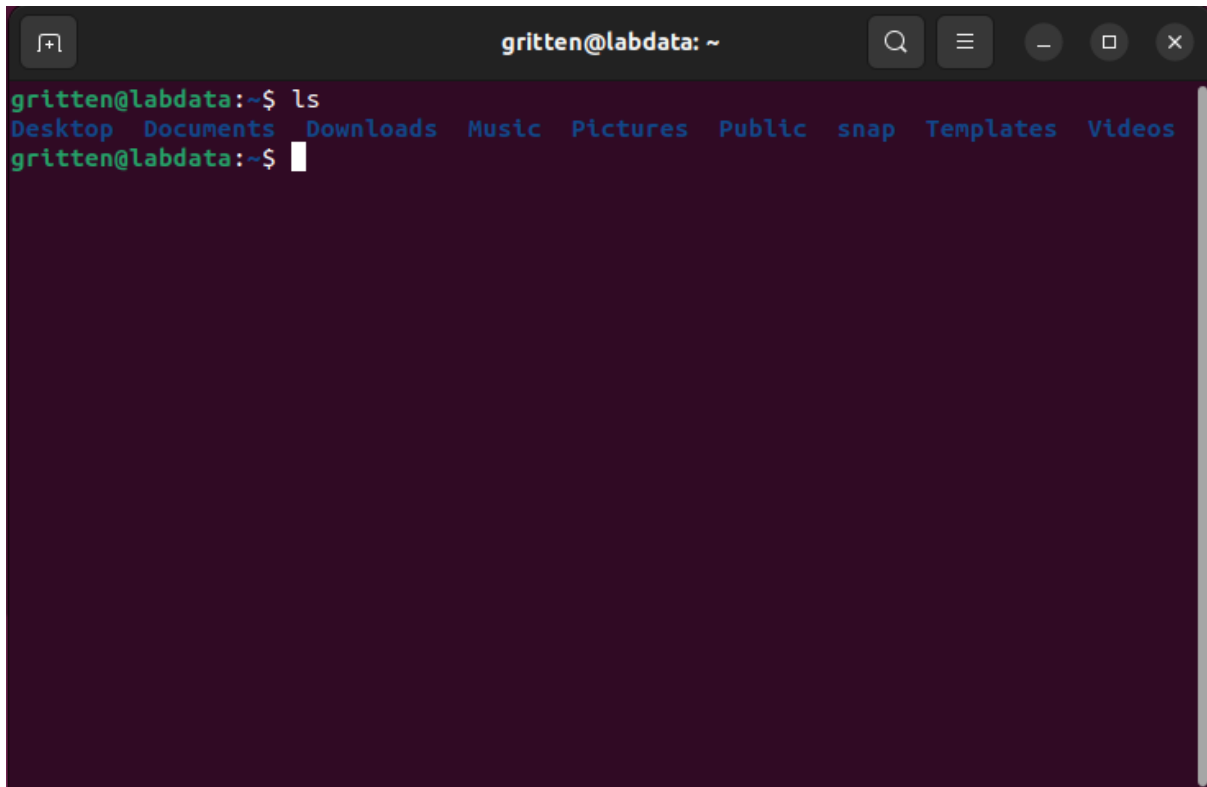


1) Liste os arquivos e diretórios no diretório atual.

Resposta: ls

Resultado:

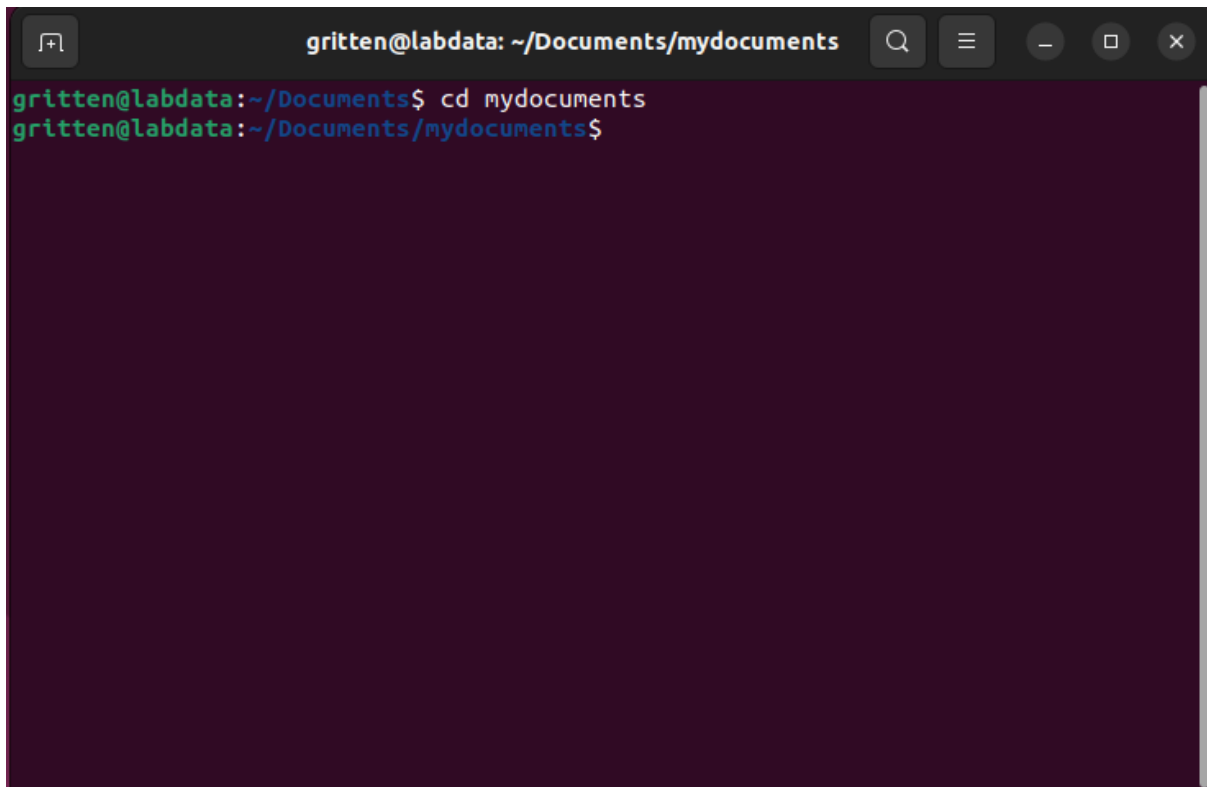
A terminal window titled "gritten@labdata: ~" with standard window controls. The prompt is "gritten@labdata:~\$". The command "ls" has been entered, and the output is displayed in a single line: "Desktop Documents Downloads Music Pictures Public snap Templates Videos". The prompt is now "gritten@labdata:~\$" with a cursor.

```
gritten@labdata:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
gritten@labdata:~$
```

2) Navegue para o diretório "mydocuments".

Resposta: cd mydocuments

Resultado:

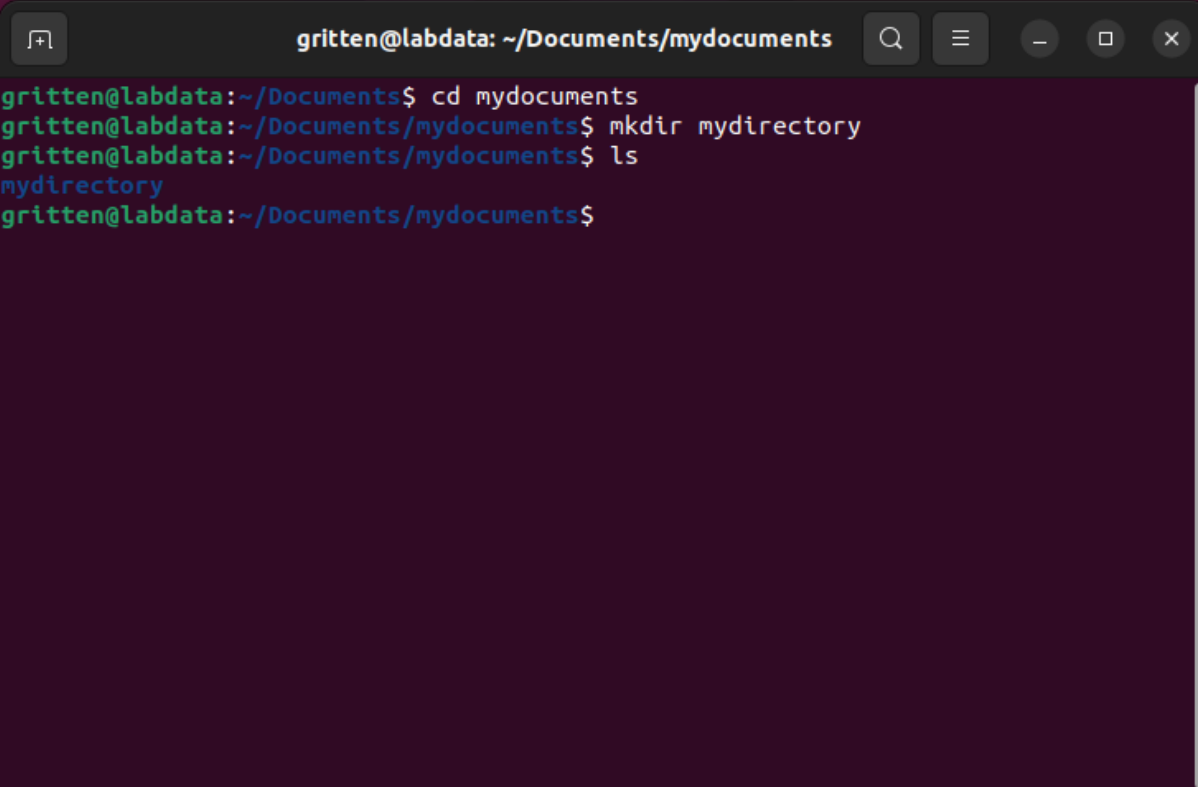
A terminal window titled "gritten@labdata: ~/Documents/mydocuments" with standard window controls. The prompt is "gritten@labdata:~/Documents\$". The command "cd mydocuments" has been entered, and the prompt has changed to "gritten@labdata:~/Documents/mydocuments\$".

```
gritten@labdata:~/Documents$ cd mydocuments
gritten@labdata:~/Documents/mydocuments$
```

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

Resposta: mkdir mydirectory

Resultado:

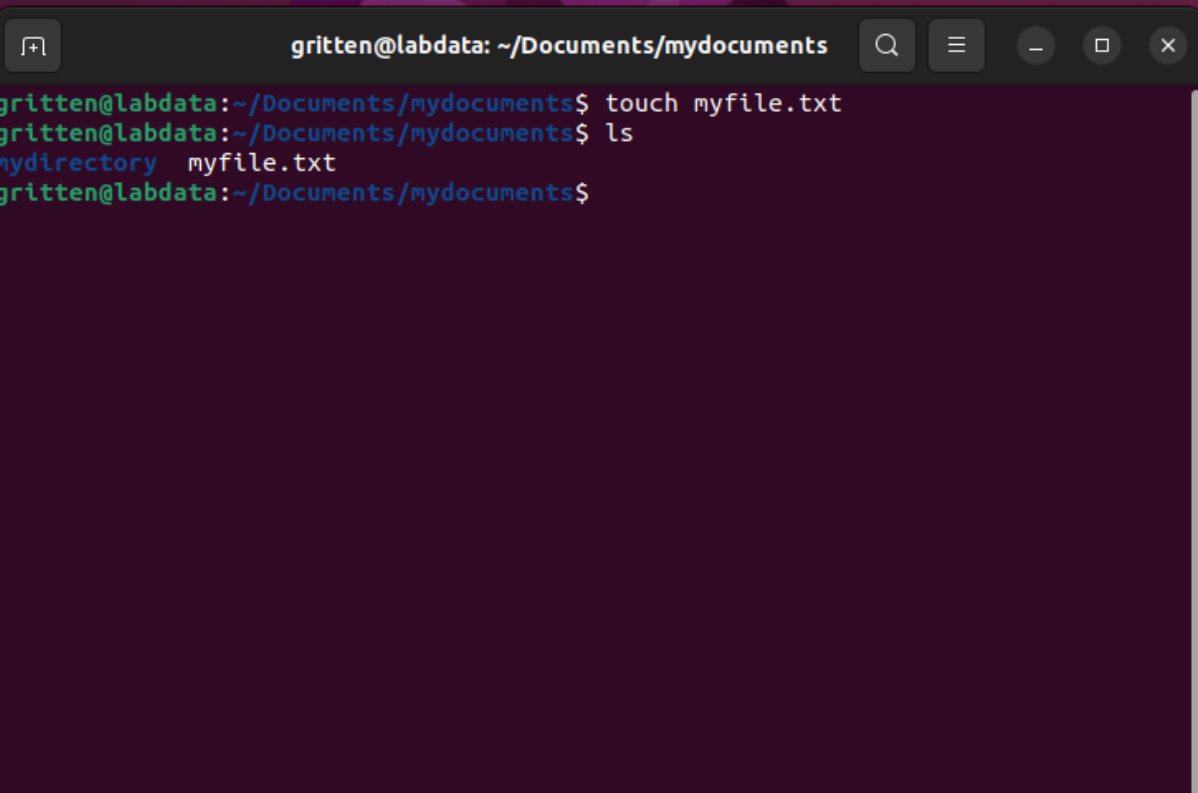
A terminal window titled "gritten@labdata: ~/Documents/mydocuments" with search, menu, and window control icons. The terminal shows the following commands and output:

```
gritten@labdata:~/Documents$ cd mydocuments
gritten@labdata:~/Documents/mydocuments$ mkdir mydirectory
gritten@labdata:~/Documents/mydocuments$ ls
mydirectory
gritten@labdata:~/Documents/mydocuments$
```

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

Resposta: touch myfile.txt

Resultado:

A terminal window titled "gritten@labdata: ~/Documents/mydocuments" with search, menu, and window control icons. The terminal shows the following commands and output:

```
gritten@labdata:~/Documents/mydocuments$ touch myfile.txt
gritten@labdata:~/Documents/mydocuments$ ls
mydirectory  myfile.txt
gritten@labdata:~/Documents/mydocuments$
```

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

Resposta: `cp myfile.txt /home/gritten/Documents/mydocuments/mydirectory`

Resultado:

```
gritten@labdata: ~/Documents/mydocuments/mydirectory
gritten@labdata:~/Documents/mydocuments/mydirectory$ cd ..
gritten@labdata:~/Documents/mydocuments$ ls
mydirectory  myfile.txt
gritten@labdata:~/Documents/mydocuments$ cp myfile.txt /home/gritten/Documents/m
ydocuments/mydirectory
gritten@labdata:~/Documents/mydocuments$ cd mydirectory
gritten@labdata:~/Documents/mydocuments/mydirectory$ ls
myfile.txt
gritten@labdata:~/Documents/mydocuments/mydirectory$
```

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

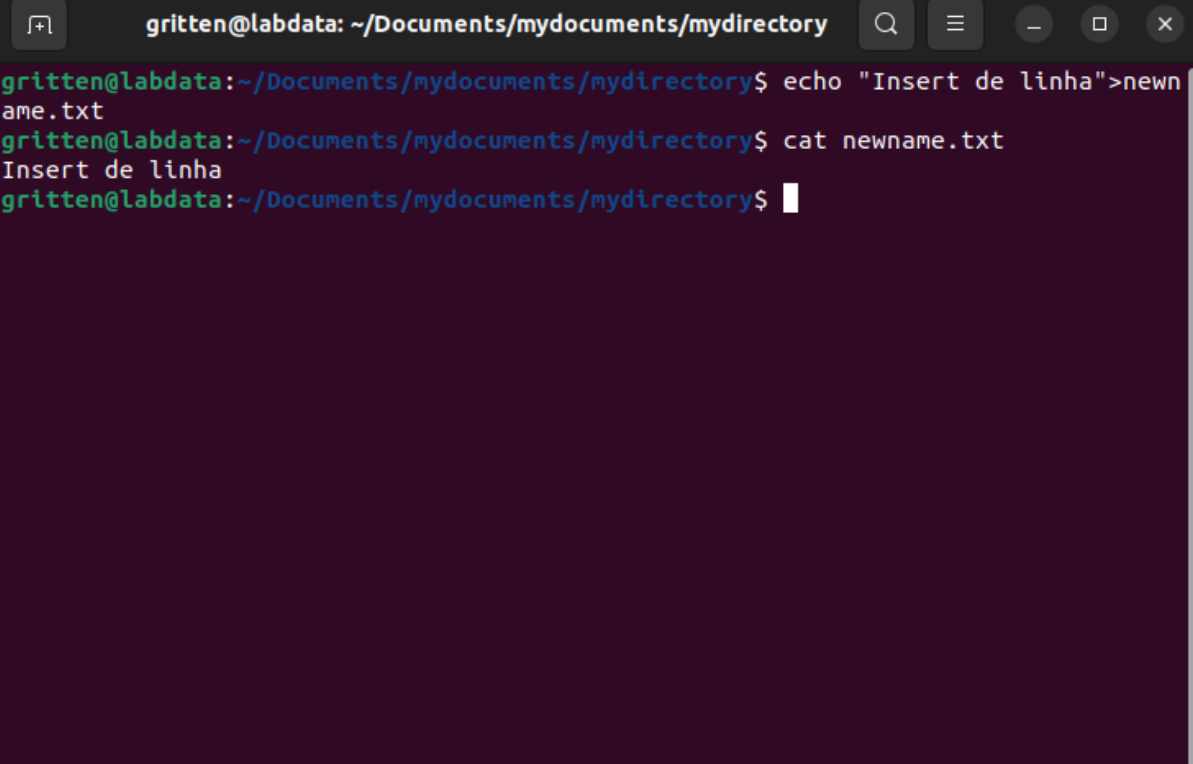
Resposta: `mv myfile.txt newfile.txt`

Resultado:

```
gritten@labdata: ~/Documents/mydocuments/mydirectory
gritten@labdata:~/Documents/mydocuments/mydirectory$ mv newfile.txt newname.txt
gritten@labdata:~/Documents/mydocuments/mydirectory$ ls
newname.txt
gritten@labdata:~/Documents/mydocuments/mydirectory$
```

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

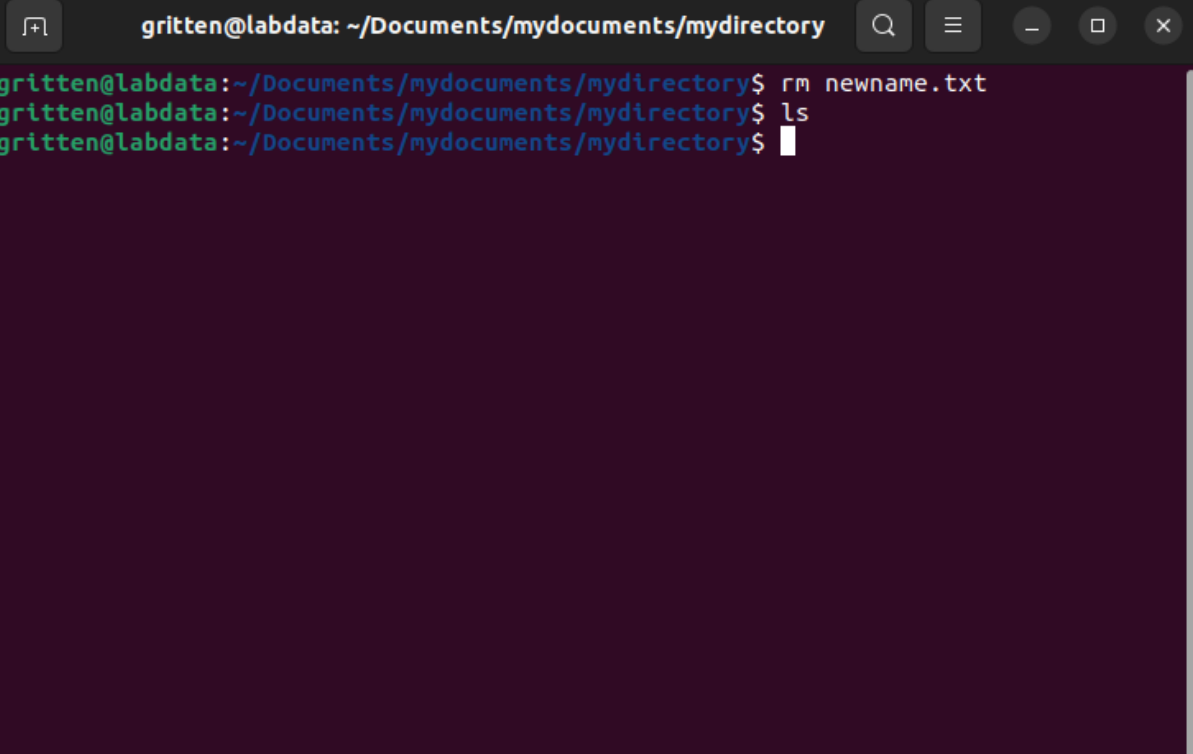
echo "Insert de linha">newname.txt



```
gritten@labdata: ~/Documents/mydocuments/mydirectory
gritten@labdata:~/Documents/mydocuments/mydirectory$ echo "Insert de linha">newname.txt
gritten@labdata:~/Documents/mydocuments/mydirectory$ cat newname.txt
Insert de linha
gritten@labdata:~/Documents/mydocuments/mydirectory$
```

8) Remova o arquivo "unwanted.txt".

rm unwanted.txt



```
gritten@labdata: ~/Documents/mydocuments/mydirectory
gritten@labdata:~/Documents/mydocuments/mydirectory$ rm unwanted.txt
gritten@labdata:~/Documents/mydocuments/mydirectory$ ls
gritten@labdata:~/Documents/mydocuments/mydirectory$
```

- 9) Liste os processos em execução no sistema.
ps -ef

```
gritten@labdata: ~/Documents/mydocuments/mydirectory
gritten@labdata:~/Documents/mydocuments/mydirectory$ ps -ef
UID          PID    PPID  C STIME TTY          TIME CMD
root           1         0  0  10:06 ?        00:00:05 /sbin/init splash
root           2         0  0  10:06 ?        00:00:00 [kthreadd]
root           3         2  0  10:06 ?        00:00:00 [rcu_gp]
root           4         2  0  10:06 ?        00:00:00 [rcu_par_gp]
root           5         2  0  10:06 ?        00:00:00 [slub_flushwq]
root           6         2  0  10:06 ?        00:00:00 [netns]
root           8         2  0  10:06 ?        00:00:00 [kworker/0:0H]
root          10         2  0  10:06 ?        00:00:00 [mm_percpu_wq]
root          11         2  0  10:06 ?        00:00:00 [rcu_tasks_kthread]
root          12         2  0  10:06 ?        00:00:00 [rcu_tasks_rude_kthread]
root          13         2  0  10:06 ?        00:00:00 [rcu_tasks_trace_kthread]
root          14         2  0  10:06 ?        00:00:00 [ksoftirqd/0]
root          15         2  0  10:06 ?        00:00:00 [rcu_preempt]
root          16         2  0  10:06 ?        00:00:00 [migration/0]
root          17         2  0  10:06 ?        00:00:00 [idle_inject/0]
root          19         2  0  10:06 ?        00:00:00 [cpuhp/0]
root          20         2  0  10:06 ?        00:00:00 [cpuhp/1]
root          21         2  0  10:06 ?        00:00:00 [idle_inject/1]
root          22         2  0  10:06 ?        00:00:00 [migration/1]
root          23         2  0  10:06 ?        00:00:00 [ksoftirqd/1]
root          25         2  0  10:06 ?        00:00:00 [kworker/1:0H-events_highpri]
root          26         2  0  10:06 ?        00:00:00 [cpuhp/2]
```

- 10) Verifique o espaço livre em disco.
df -h

```
gritten@labdata: ~/Documents/mydocuments/mydirectory
gritten@labdata:~/Documents/mydocuments/mydirectory$ df -h
Filesystem      Size  Used Avail Use% Mounted on
tmpfs           776M  1,6M  775M   1% /run
/dev/sda3       49G   18G   29G  39% /
tmpfs           3,8G    0   3,8G   0% /dev/shm
tmpfs           5,0M  4,0K  5,0M   1% /run/lock
/dev/sda2       512M  6,1M  506M   2% /boot/efi
tmpfs           776M  104K  776M   1% /run/user/1000
/dev/sr0        51M   51M    0 100% /media/gritten/VBox_GAs_7.0.2
gritten@labdata:~/Documents/mydocuments/mydirectory$
```

11) Encontre todos os arquivos com a extensão ".txt" em todo o mydocuments.

ls | grep .txt

```
gritten@labdata: ~/Documents/mydocuments
gritten@labdata:~/Documents/mydocuments$ ls | grep .txt
myfile.txt
gritten@labdata:~/Documents/mydocuments$
```

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

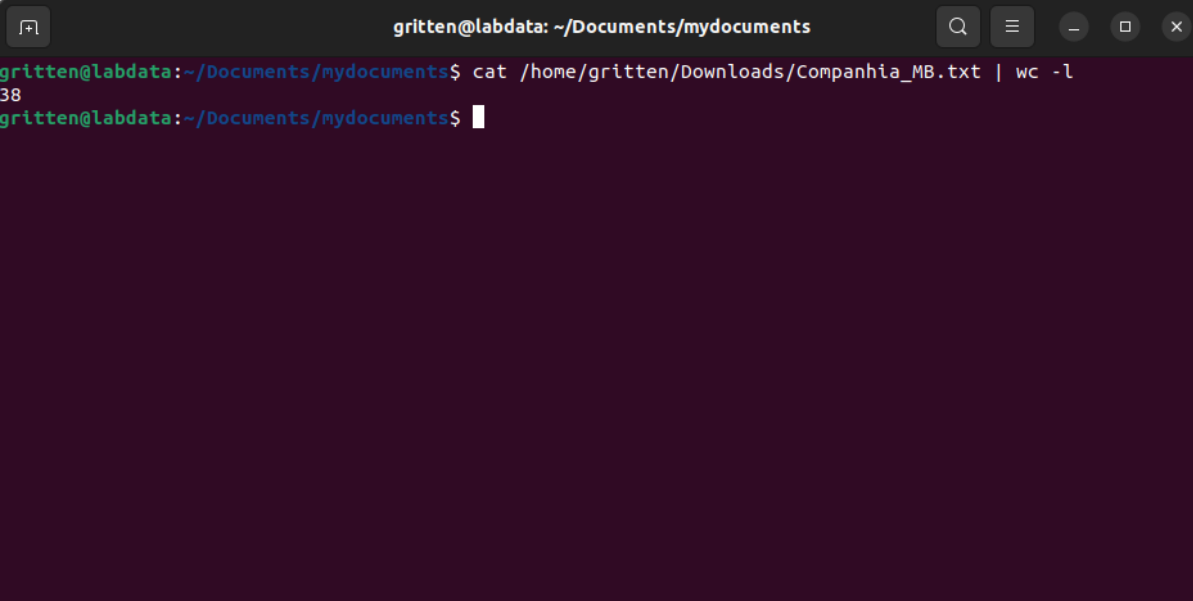
ps | tail

```
gritten@labdata: ~/Documents/mydocuments
top - 11:08:37 up 1:01, 1 user, load average: 0,00, 0,02, 0,05
Tasks: 187 total, 1 running, 186 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0,2 us, 0,1 sy, 0,0 ni, 99,7 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st
MiB Mem : 7759,2 total, 3974,5 free, 809,3 used, 2975,5 buff/cache
MiB Swap: 2048,0 total, 2048,0 free, 0,0 used. 6682,7 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
 1674 gritten   20   0 4617632 364844 124296 S   1,7   4,6   0:36.55  gnome-shell
   623 systemd+  20   0  14828    6216   5432 S   0,3   0,1   0:02.06  systemd-oomd
 2145 gritten  20   0 562892   53004  40556 S   0,3   0,7   0:03.98  gnome-terminal-
 4131 root      20   0      0      0      0 I   0,3   0,0   0:00.13  kworker/u6:0-events_unbound
 4300 gritten  20   0  22048    4200   3508 R   0,3   0,1   0:00.14  top
    1 root     20   0 168116   13424   8248 S   0,0   0,2   0:05.79  systemd
    2 root     20   0      0      0      0 S   0,0   0,0   0:00.01  kthreadd
    3 root      0 -20      0      0      0 I   0,0   0,0   0:00.00  rcu_gp
    4 root      0 -20      0      0      0 I   0,0   0,0   0:00.00  rcu_par_gp
    5 root      0 -20      0      0      0 I   0,0   0,0   0:00.00  slub_flushwq
    6 root      0 -20      0      0      0 I   0,0   0,0   0:00.00  netns
    8 root      0 -20      0      0      0 I   0,0   0,0   0:00.00  kworker/0:0H
   10 root      0 -20      0      0      0 I   0,0   0,0   0:00.00  mm_percpu_wq
   11 root     20   0      0      0      0 I   0,0   0,0   0:00.00  rcu_tasks_kthread
   12 root     20   0      0      0      0 I   0,0   0,0   0:00.00  rcu_tasks_rude_kthread
   13 root     20   0      0      0      0 I   0,0   0,0   0:00.00  rcu_tasks_trace_kthread
   14 root     20   0      0      0      0 S   0,0   0,0   0:00.08  ksoftirqd/0
```

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

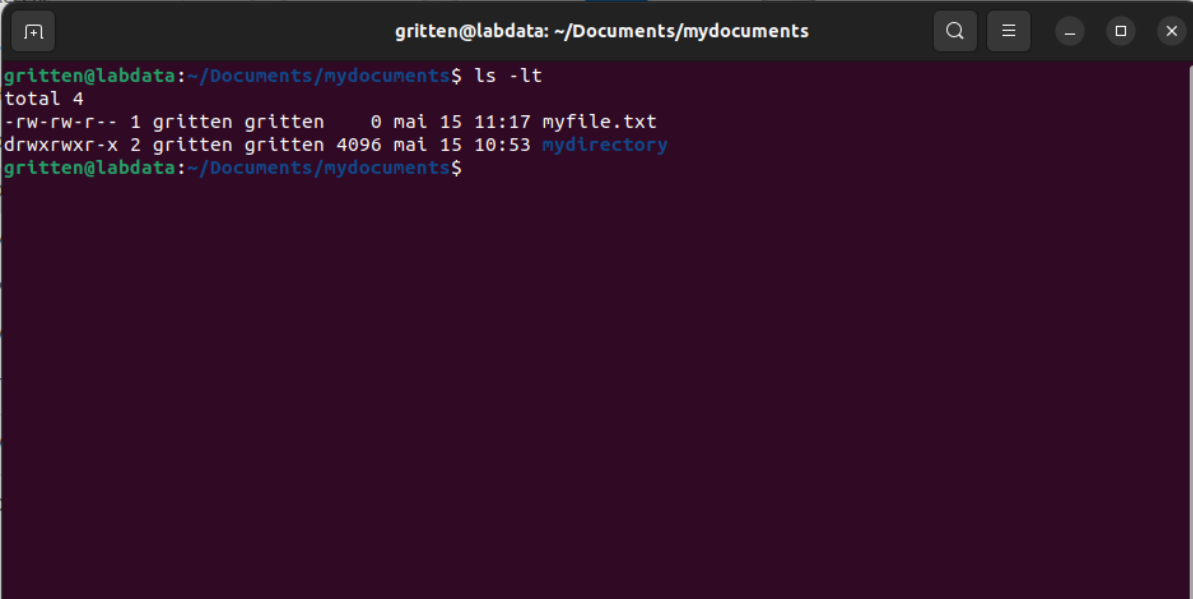
Resposta: `cat /home/gritten/Downloads/Companhia_MB.txt | wc -l`



```
gritten@labdata: ~/Documents/mydocuments
gritten@labdata:~/Documents/mydocuments$ cat /home/gritten/Downloads/Companhia_MB.txt | wc -l
38
gritten@labdata:~/Documents/mydocuments$
```

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

Resposta: `ls -lt`



```
gritten@labdata: ~/Documents/mydocuments
gritten@labdata:~/Documents/mydocuments$ ls -lt
total 4
-rw-rw-r-- 1 gritten gritten  0 mai 15 11:17 myfile.txt
drwxrwxr-x 2 gritten gritten 4096 mai 15 10:53 mydirectory
gritten@labdata:~/Documents/mydocuments$
```

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

`tar -czvf arquivo-zipado.tar.gz /home/gritten/Documents/mydocuments`

```
gritten@labdata:~/Documents$ tar -czvf arquivo-zipado.tar.gz /home/gritten/Documents/mydocuments
tar: Removing leading '/' from member names
/home/gritten/Documents/mydocuments/
/home/gritten/Documents/mydocuments/mydirectory/
/home/gritten/Documents/mydocuments/myfile.txt
gritten@labdata:~/Documents$ ls
arquivo-zipado.tar.gz  aula-bradesco_key.pem  git  mydirectory  mydocuments  NoSQLBooster
gritten@labdata:~/Documents$
```

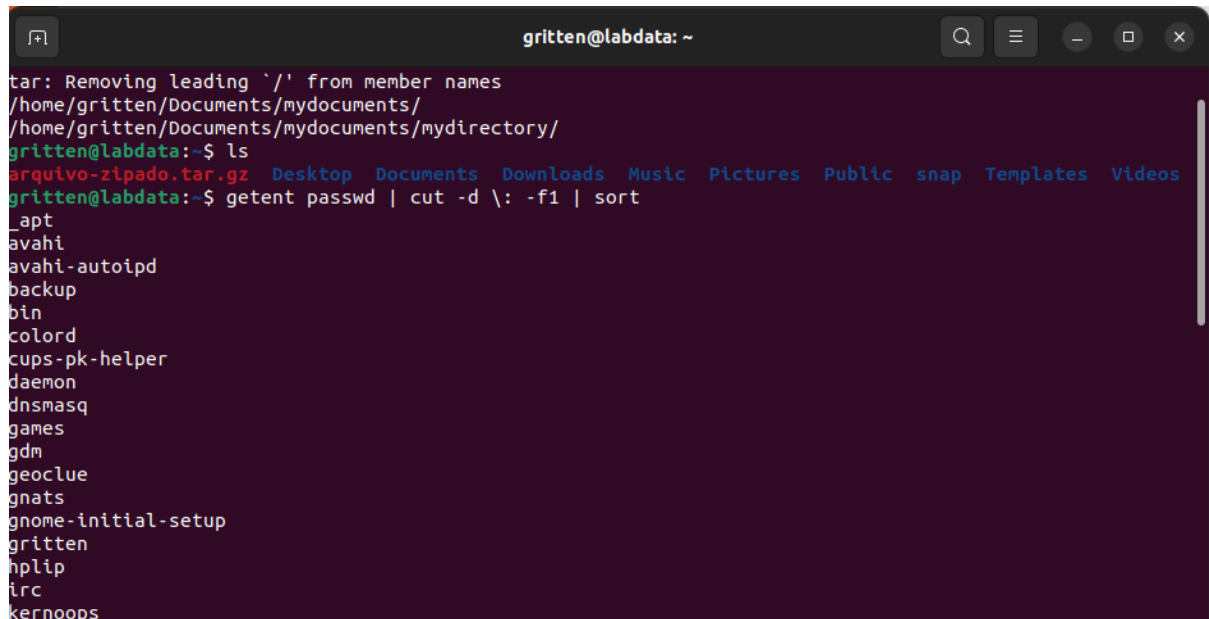
16) Encontre todas as ocorrências da palavra "capital" em todos os arquivos do local que esta companhia_mb.

`grep -R "capital"`

```
gritten@labdata:~/Documents$ cd /home/gritten/Downloads/
gritten@labdata:~/Downloads$ grep -R "capital"
Companhia_MB.txt:2      casado  1-ensino fundamental  1      4.56  32      capital
Companhia_MB.txt:3      casado  1-ensino fundamental  2      5.25  36      capital
Companhia_MB.txt:8      solteiro 1-ensino fundamental  7.39  43      capital
Companhia_MB.txt:9      casado  2-ensino medio  1      7.59  34      capital
Companhia_MB.txt:12     solteiro 1-ensino fundamental  8.46  27      capital
Companhia_MB.txt:17     casado  2-ensino medio  1      9.77  31      capital
Companhia_MB.txt:22     solteiro 2-ensino medio  11.59  34      capital
Companhia_MB.txt:30     casado  2-ensino medio  2      15.99 35      capital
Companhia_MB.txt:33     casado  3-superior  3      17.26 43      capital
Companhia_MB.txt:34     solteiro 3-superior  18.75 33      capital
Companhia_MB.txt:35     casado  2-ensino medio  2      19.4  48      capital
gritten@labdata:~/Downloads$
```


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

```
sudo getent passwd | cut -d \: -f1 | sort
```



```
gritten@labdata: ~  
tar: Removing leading `/' from member names  
/home/gritten/Documents/mydocuments/  
/home/gritten/Documents/mydocuments/mydirectory/  
gritten@labdata:~$ ls  
arquivo-zipado.tar.gz Desktop Documents Downloads Music Pictures Public snap Templates Videos  
gritten@labdata:~$ getent passwd | cut -d \: -f1 | sort  
_apt  
avahi  
avahi-autoipd  
backup  
bin  
colord  
cups-pk-helper  
daemon  
dnsmasq  
games  
gdm  
geoclue  
gnats  
gnome-initial-setup  
gritten  
nplip  
irc  
kernoops
```

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

```
cat /home/gritten/Downloads/Companhia_MB.txt | tail -n -20
```



```
gritten@labdata:~$ cat /home/gritten/Downloads/Companhia_MB.txt | tail -n -20  
18  casado 1-ensino fundamental 2 9.8 39 outra  
19  solteiro 3-superior 10.53 25 interior  
20  solteiro 2-ensino medio 10.76 37 interior  
21  casado 2-ensino medio 1 11.06 30 outra  
22  solteiro 2-ensino medio 11.59 34 capital  
23  solteiro 1-ensino fundamental 12 41 outra  
24  casado 3-superior 0 12.79 26 outra  
25  casado 2-ensino medio 2 13.23 32 interior  
26  casado 2-ensino medio 2 13.6 35 outra  
27  solteiro 1-ensino fundamental 13.85 46 outra  
28  casado 2-ensino medio 0 14.69 29 interior  
29  casado 2-ensino medio 5 14.71 40 interior  
30  casado 2-ensino medio 2 15.99 35 capital  
31  solteiro 3-superior 16.22 31 outra  
32  casado 2-ensino medio 1 16.61 36 interior  
33  casado 3-superior 3 17.26 43 capital  
34  solteiro 3-superior 18.75 33 capital  
35  casado 2-ensino medio 2 19.4 48 capital  
36  casado 3-superior 3 23.3 42 interior  
gritten@labdata:~$
```

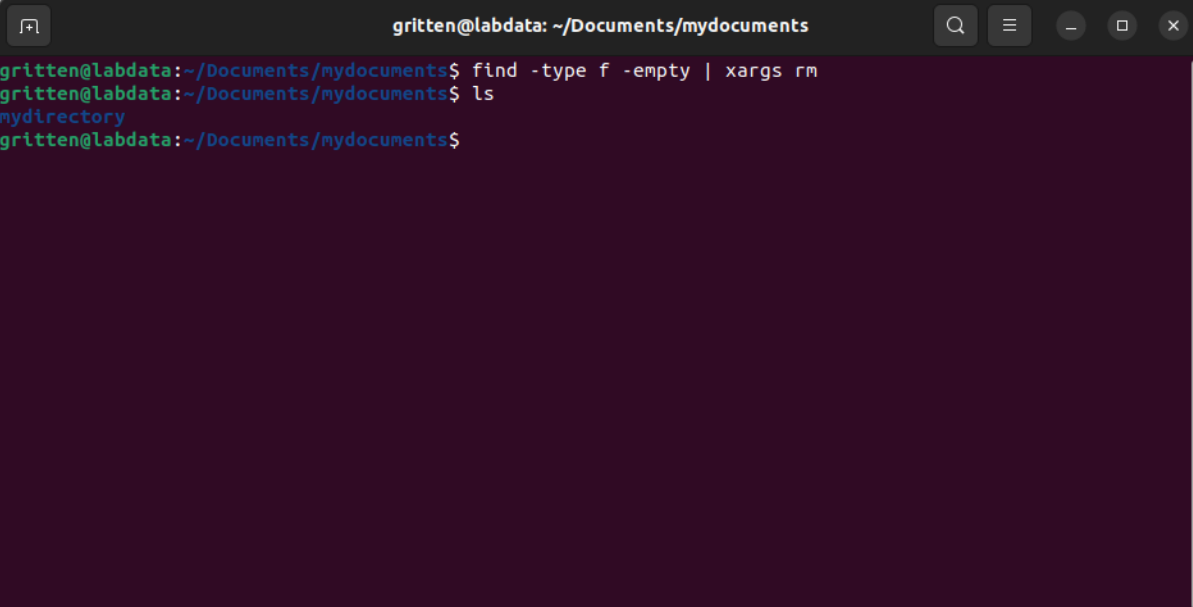
19) Altere as permissões de um arquivo para que apenas o proprietário possa ler, escrever e executar.

```
sudo chmod 700 /home/gritten/Downloads/Companhia_MB.txt
```

```
gritten@labdata:~$ sudo chmod 700 /home/gritten/Downloads/Companhia_MB.txt
gritten@labdata:~$ ls -lt /home/gritten/Downloads/Companhia_MB.txt
-rwx----- 1 gritten gritten 1710 mai 15 11:10 /home/gritten/Downloads/Companhia_MB.txt
gritten@labdata:~$
```

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

```
find . -type f -empty | xargs rm
```



```
gritten@labdata: ~/Documents/mydocuments
gritten@labdata:~/Documents/mydocuments$ find -type f -empty | xargs rm
gritten@labdata:~/Documents/mydocuments$ ls
mydirectory
gritten@labdata:~/Documents/mydocuments$
```