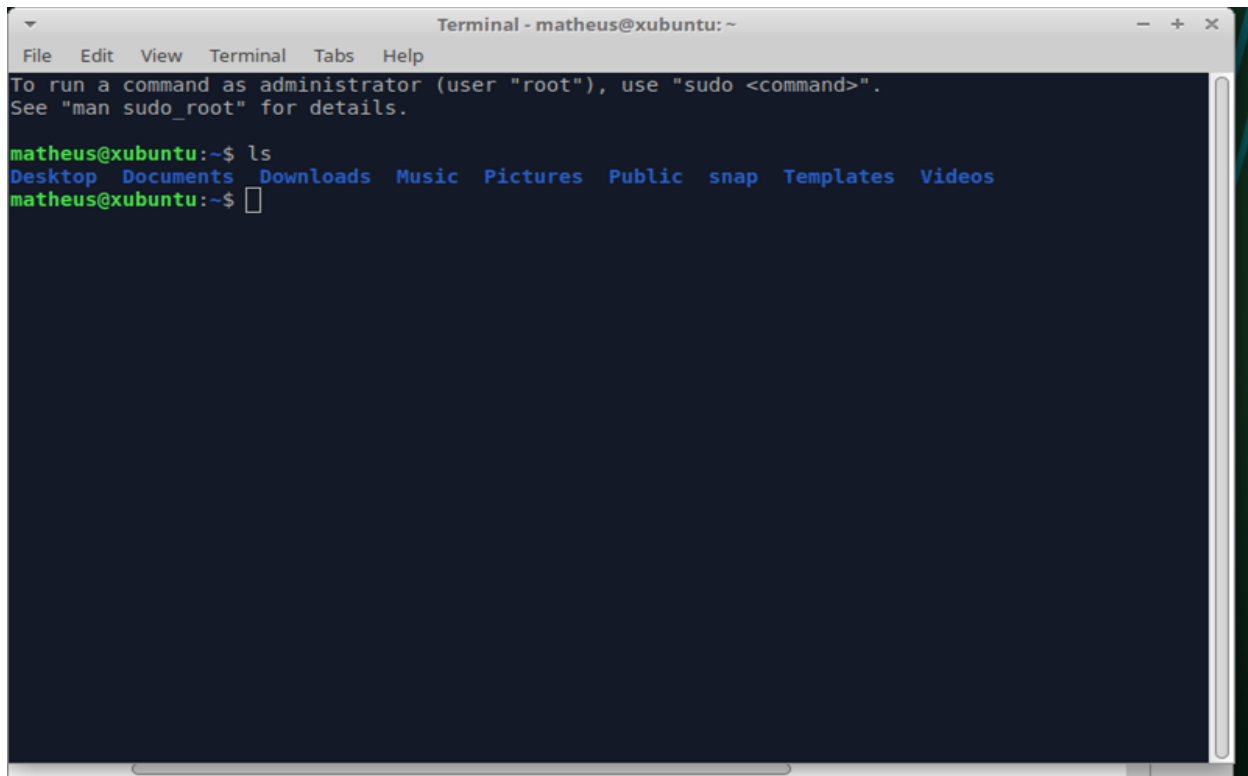


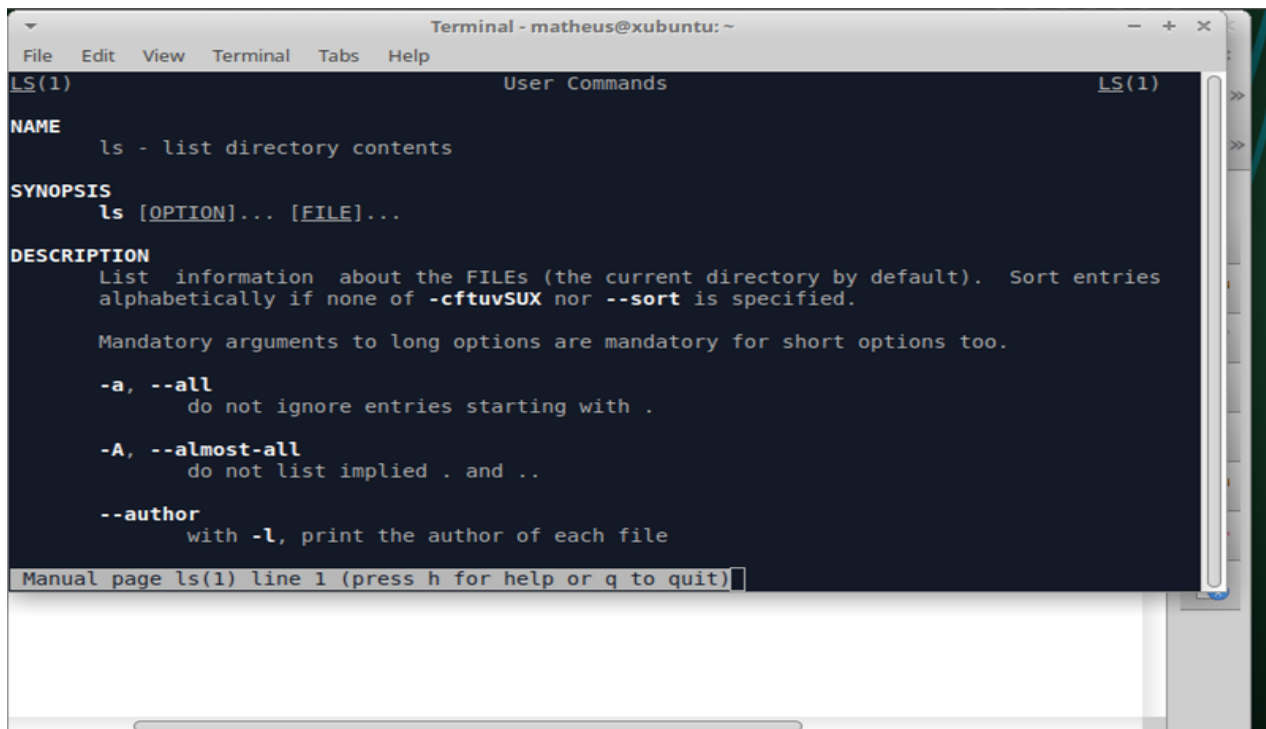
.ls – listagem de arquivos



```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

matheus@xubuntu:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
matheus@xubuntu:~$
```

. man ls – “manual”



```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
LS(1) User Commands LS(1)

NAME
  ls - list directory contents

SYNOPSIS
  ls [OPTION]... [FILE]...

DESCRIPTION
  List information about the FILES (the current directory by default). Sort entries
  alphabetically if none of -cftuvSUX nor --sort is specified.

  Mandatory arguments to long options are mandatory for short options too.

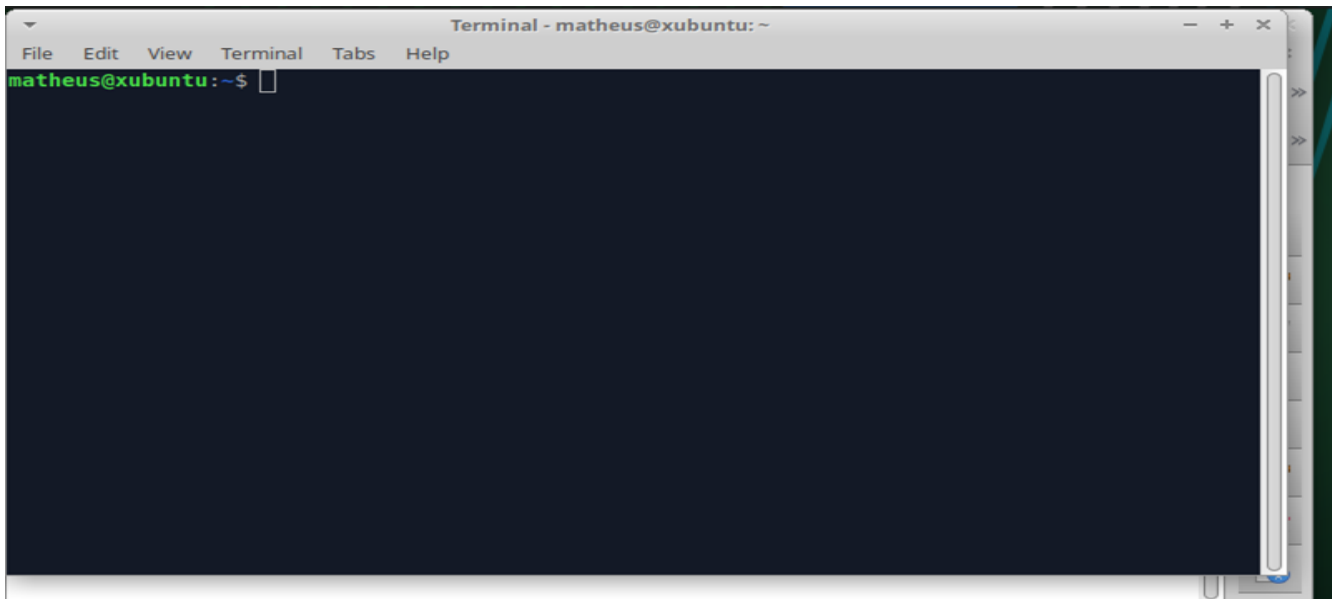
  -a, --all
      do not ignore entries starting with .

  -A, --almost-all
      do not list implied . and ..

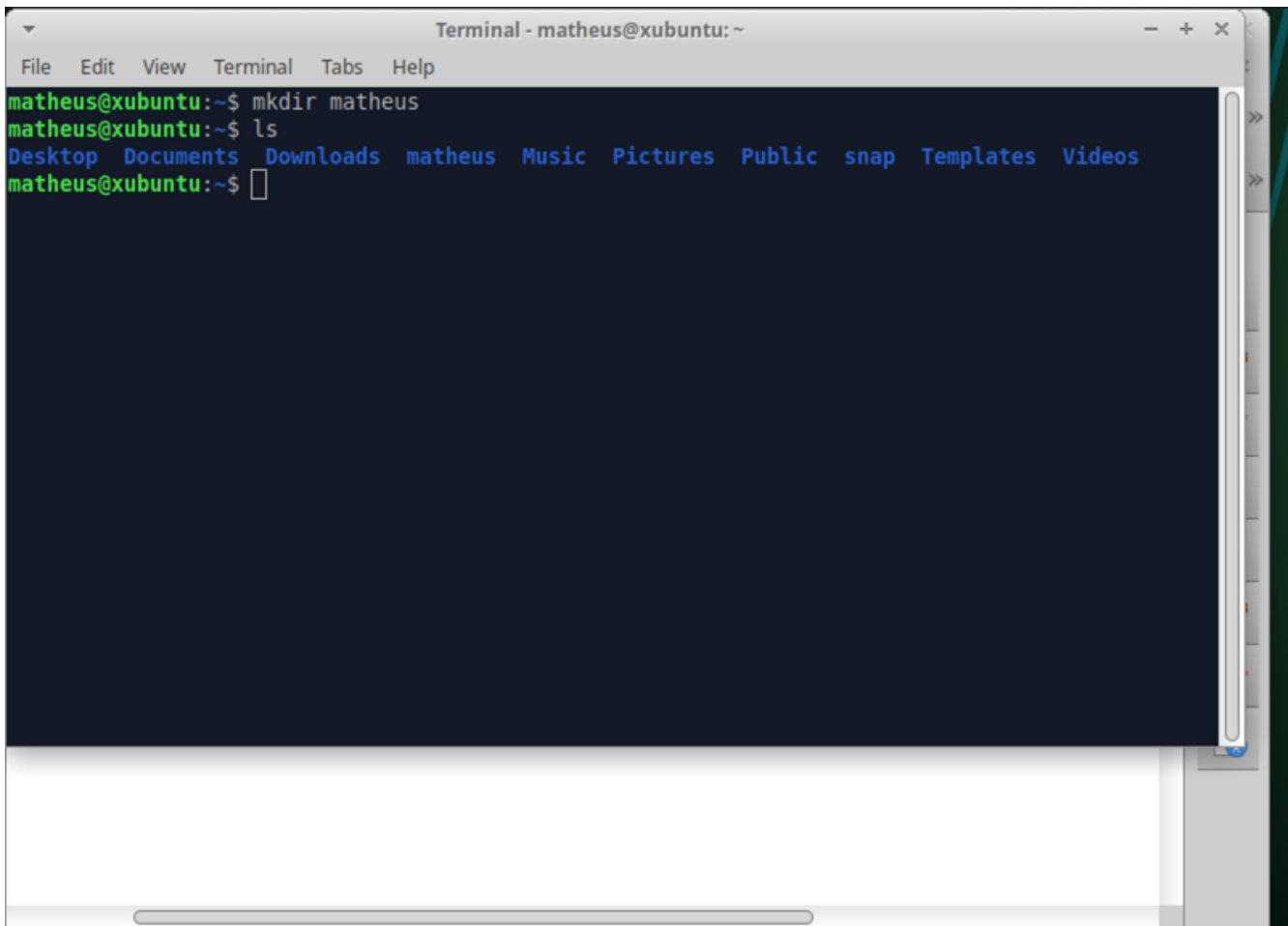
  --author
      with -l, print the author of each file

Manual page ls(1) line 1 (press h for help or q to quit)
```

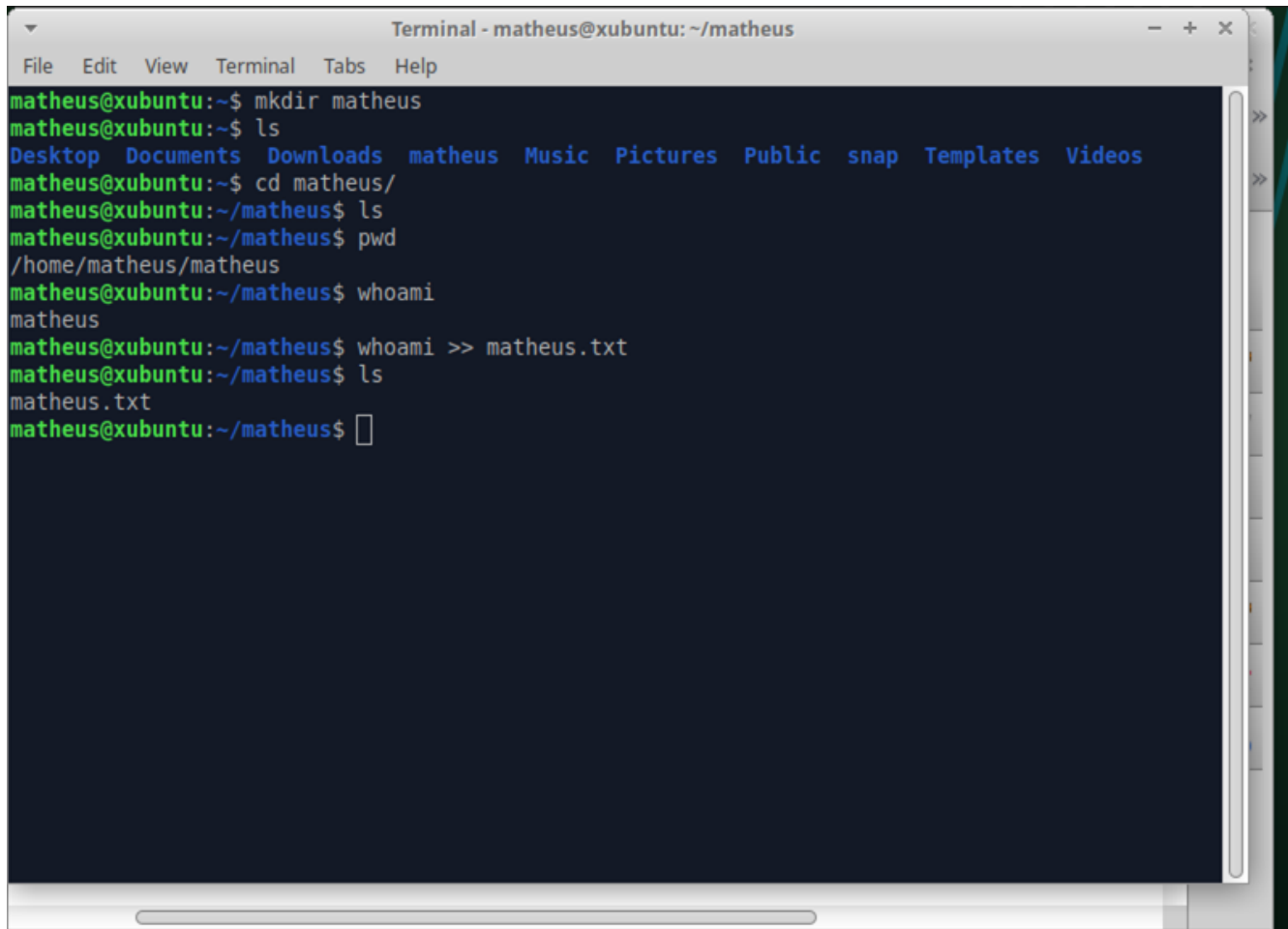
.clear – limpa o terminal



. mkdir – criar diretórios

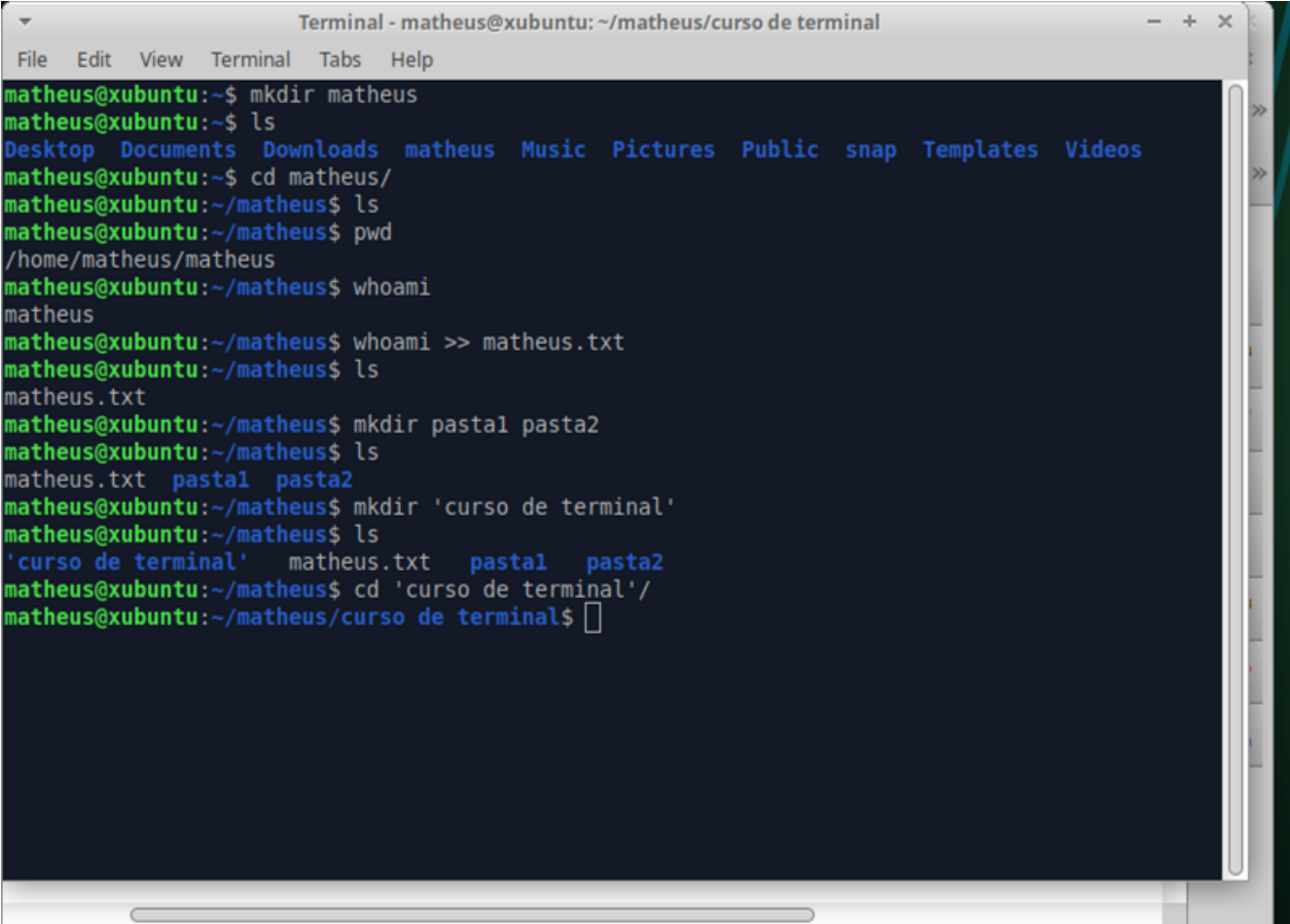


. cd , pwd , whoami, redireccionadores

A terminal window titled "Terminal - matheus@xubuntu: ~/matheus" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows a series of commands and their outputs: creating a directory, listing files, changing directories, and using 'whoami' to create a file.

```
matheus@xubuntu:~$ mkdir matheus
matheus@xubuntu:~$ ls
Desktop  Documents  Downloads  matheus  Music  Pictures  Public  snap  Templates  Videos
matheus@xubuntu:~$ cd matheus/
matheus@xubuntu:~/matheus$ ls
matheus@xubuntu:~/matheus$ pwd
/home/matheus/matheus
matheus@xubuntu:~/matheus$ whoami
matheus
matheus@xubuntu:~/matheus$ whoami >> matheus.txt
matheus@xubuntu:~/matheus$ ls
matheus.txt
matheus@xubuntu:~/matheus$
```

. pasta com nome composto, exemplo

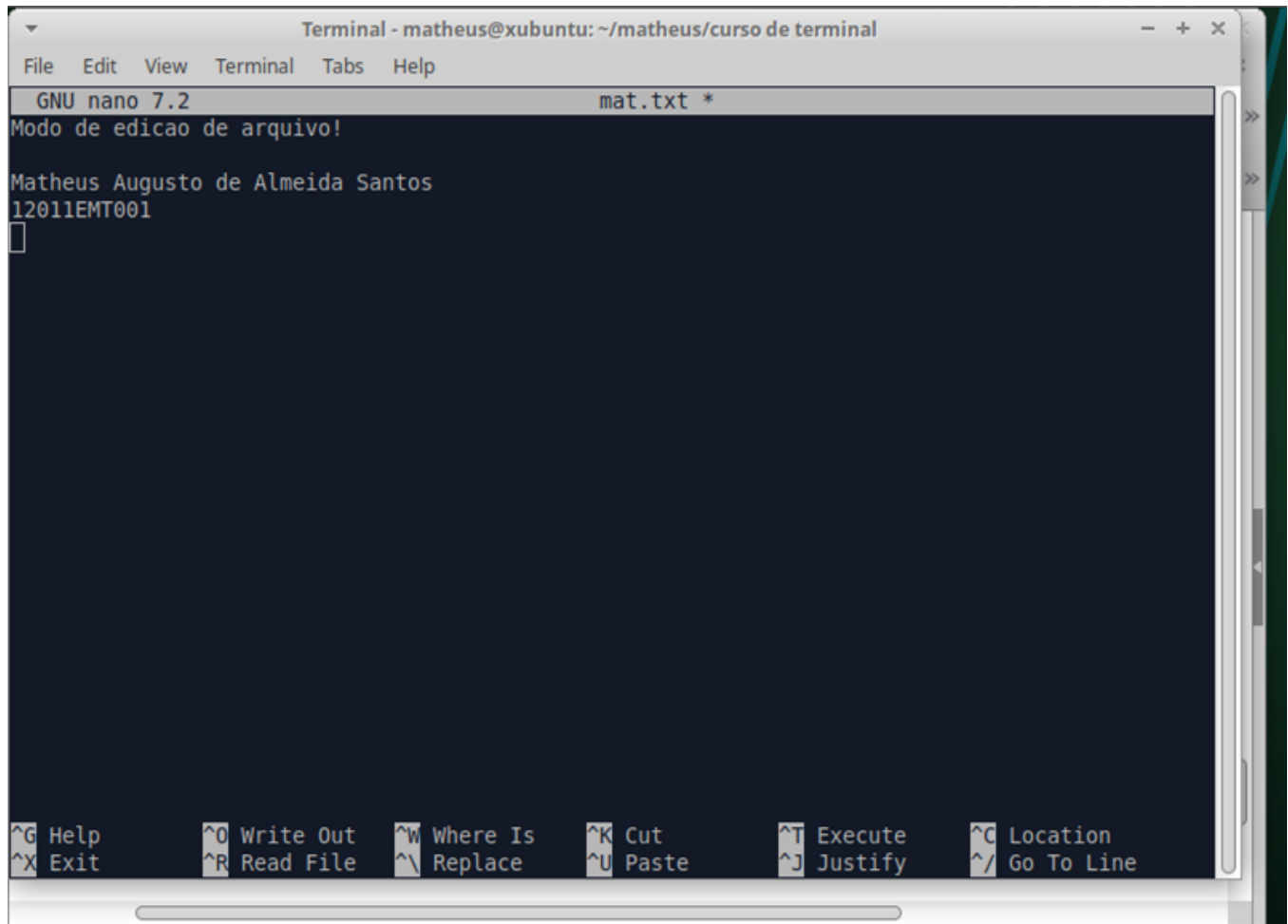
A terminal window titled "Terminal - matheus@xubuntu: ~/matheus/curso de terminal" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows a series of commands and their outputs. The user creates a directory named 'matheus', navigates into it, and then creates two subdirectories named 'pasta1' and 'pasta2'. Finally, they create a directory named 'curso de terminal' and navigate into it. The output of the 'ls' command shows the directory structure.

```
matheus@xubuntu:~$ mkdir matheus
matheus@xubuntu:~$ ls
Desktop  Documents  Downloads  matheus  Music  Pictures  Public  snap  Templates  Videos
matheus@xubuntu:~$ cd matheus/
matheus@xubuntu:~/matheus$ ls
matheus@xubuntu:~/matheus$ pwd
/home/matheus/matheus
matheus@xubuntu:~/matheus$ whoami
matheus
matheus@xubuntu:~/matheus$ whoami >> matheus.txt
matheus@xubuntu:~/matheus$ ls
matheus.txt
matheus@xubuntu:~/matheus$ mkdir pasta1 pasta2
matheus@xubuntu:~/matheus$ ls
matheus.txt  pasta1  pasta2
matheus@xubuntu:~/matheus$ mkdir 'curso de terminal'
matheus@xubuntu:~/matheus$ ls
'curso de terminal'  matheus.txt  pasta1  pasta2
matheus@xubuntu:~/matheus$ cd 'curso de terminal'/
matheus@xubuntu:~/matheus/curso de terminal$
```

.touch

```
Terminal - matheus@xubuntu: ~/matheus/curso de terminal
File Edit View Terminal Tabs Help
matheus@xubuntu:~$ mkdir matheus
matheus@xubuntu:~$ ls
Desktop Documents Downloads matheus Music Pictures Public snap Templates Videos
matheus@xubuntu:~$ cd matheus/
matheus@xubuntu:~/matheus$ ls
matheus@xubuntu:~/matheus$ pwd
/home/matheus/matheus
matheus@xubuntu:~/matheus$ whoami
matheus
matheus@xubuntu:~/matheus$ whoami >> matheus.txt
matheus@xubuntu:~/matheus$ ls
matheus.txt
matheus@xubuntu:~/matheus$ mkdir pasta1 pasta2
matheus@xubuntu:~/matheus$ ls
matheus.txt pasta1 pasta2
matheus@xubuntu:~/matheus$ mkdir 'curso de terminal'
matheus@xubuntu:~/matheus$ ls
'curso de terminal' matheus.txt pasta1 pasta2
matheus@xubuntu:~/matheus$ cd 'curso de terminal'/
matheus@xubuntu:~/matheus/curso de terminal$ touch mat.txt
matheus@xubuntu:~/matheus/curso de terminal$ ls
mat.txt
matheus@xubuntu:~/matheus/curso de terminal$
```

.nano

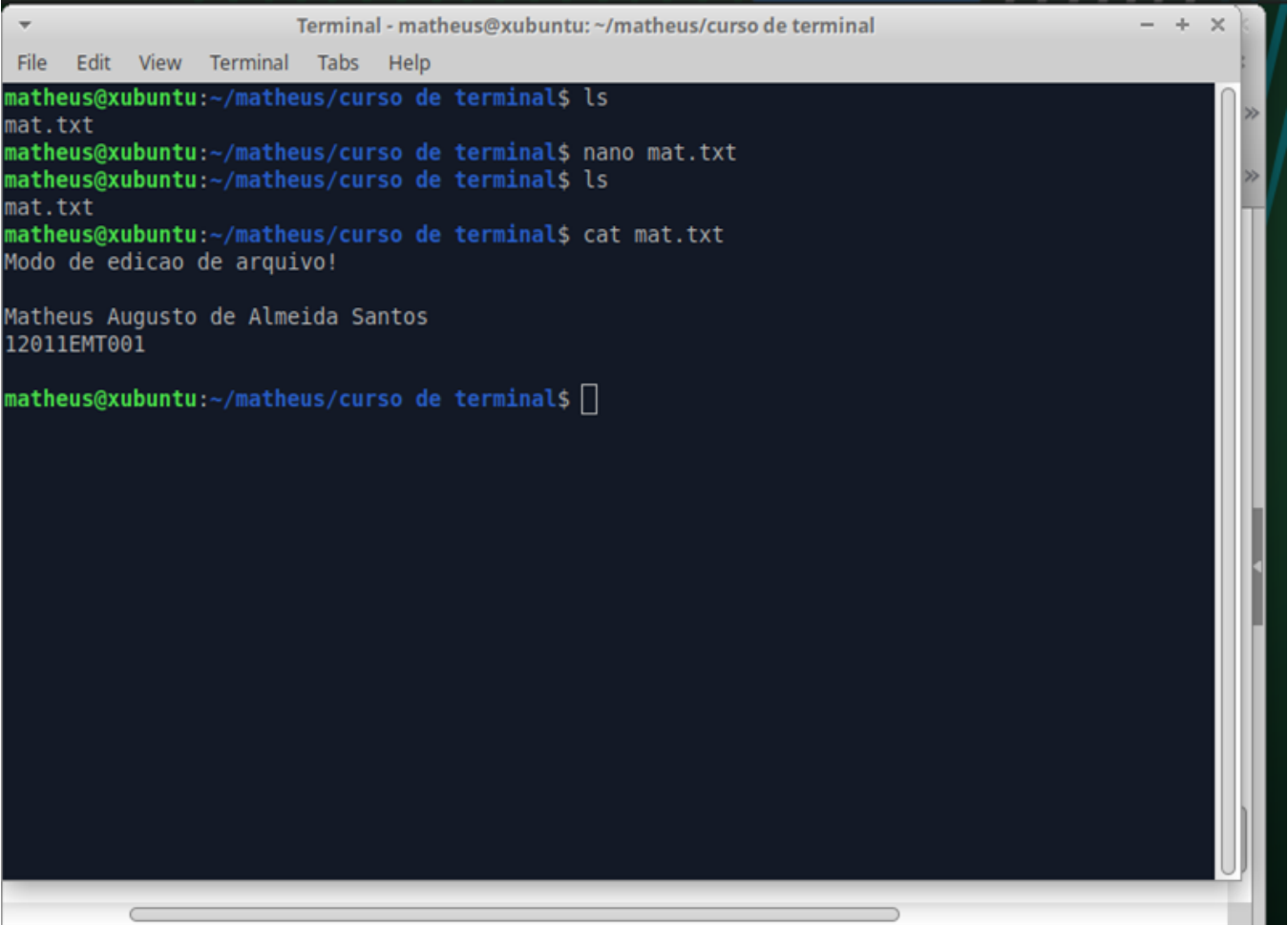


The image shows a terminal window titled "Terminal - matheus@xubuntu: ~/matheus/curso de terminal". Inside the terminal, the GNU nano 7.2 text editor is open, editing a file named "mat.txt". The editor's status bar at the top indicates "GNU nano 7.2" and "mat.txt \*". The main editing area contains the text "Modo de edicao de arquivo!" followed by "Matheus Augusto de Almeida Santos" and "12011EMT001". A cursor is positioned at the end of the second line. The bottom status bar displays various keyboard shortcuts: ^G Help, ^O Write Out, ^W Where Is, ^K Cut, ^T Execute, ^C Location, ^X Exit, ^R Read File, ^\_ Replace, ^U Paste, ^J Justify, and ^/ Go To Line.

```
Terminal - matheus@xubuntu: ~/matheus/curso de terminal
File Edit View Terminal Tabs Help
GNU nano 7.2 mat.txt *
Modo de edicao de arquivo!

Matheus Augusto de Almeida Santos
12011EMT001
^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
```

.cat

A screenshot of a terminal window titled "Terminal - matheus@xubuntu: ~/matheus/curso de terminal". The window has a menu bar with "File", "Edit", "View", "Terminal", "Tabs", and "Help". The terminal output shows the following sequence of commands and responses:

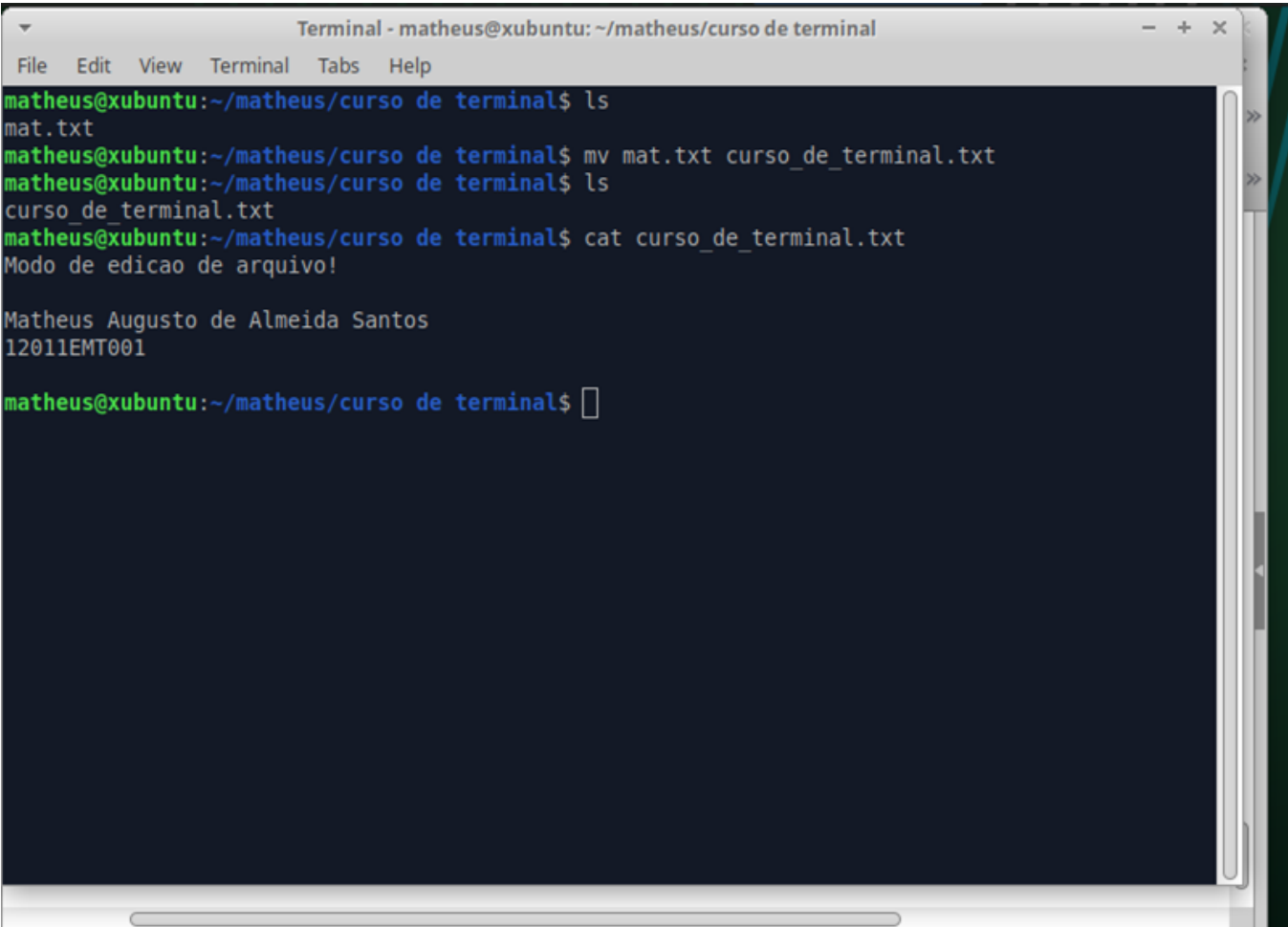
```
matheus@xubuntu:~/matheus/curso de terminal$ ls
mat.txt
matheus@xubuntu:~/matheus/curso de terminal$ nano mat.txt
matheus@xubuntu:~/matheus/curso de terminal$ ls
mat.txt
matheus@xubuntu:~/matheus/curso de terminal$ cat mat.txt
Modo de edicao de arquivo!

Matheus Augusto de Almeida Santos
12011EMT001

matheus@xubuntu:~/matheus/curso de terminal$
```

The prompt is green, and the command text is blue. The output text is white. The terminal window has a dark blue background and a light gray border. The scrollbar on the right is visible, showing the current position in the terminal history.

.mv

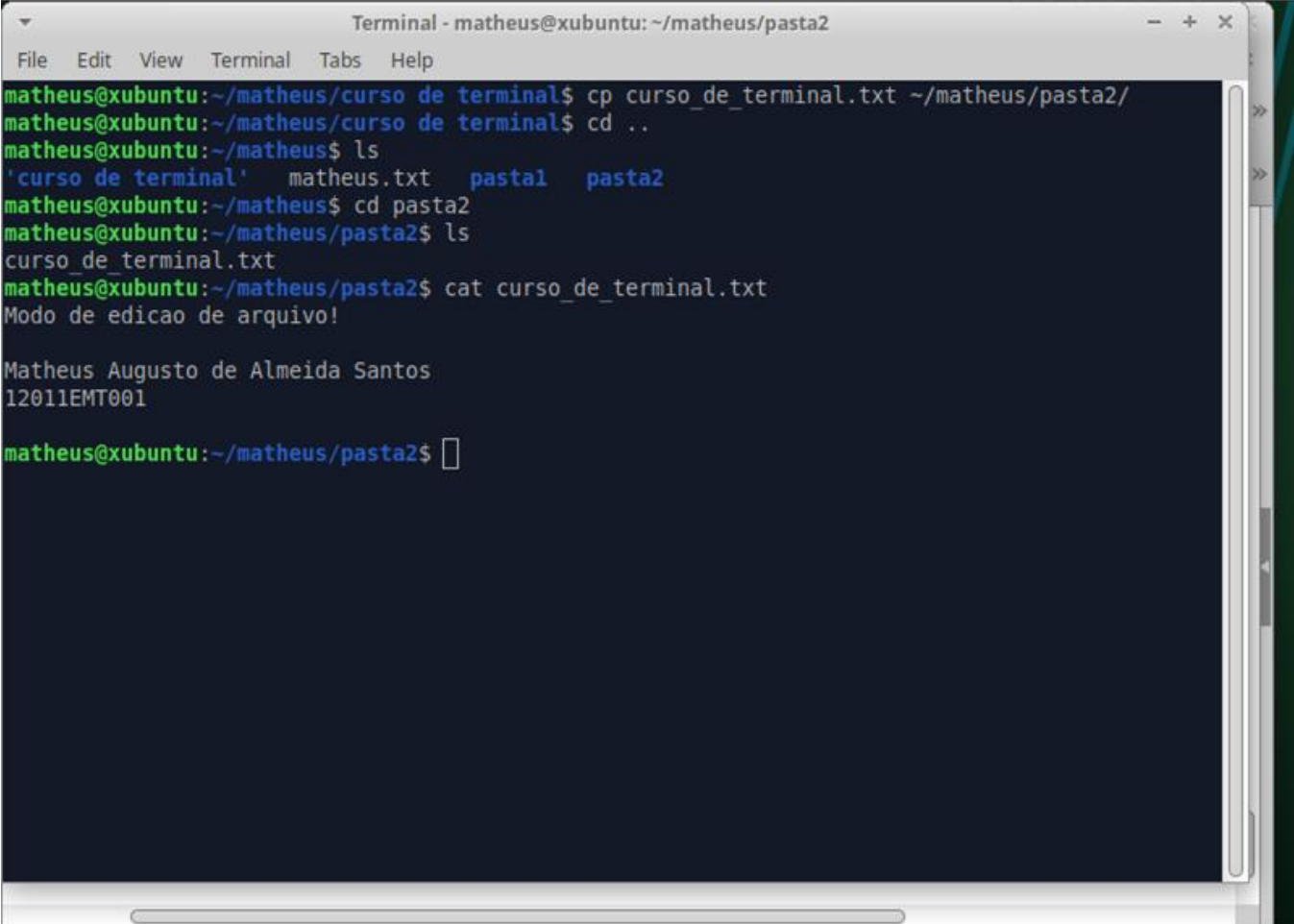
A terminal window titled "Terminal - matheus@xubuntu: ~/matheus/curso de terminal" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows a sequence of commands: 'ls' (output: mat.txt), 'mv mat.txt curso\_de\_terminal.txt', 'ls' (output: curso\_de\_terminal.txt), and 'cat curso\_de\_terminal.txt' (output: Modo de edicao de arquivo!, Matheus Augusto de Almeida Santos, 12011EMT001). The prompt is 'matheus@xubuntu:~/matheus/curso de terminal\$' with a cursor.

```
Terminal - matheus@xubuntu: ~/matheus/curso de terminal
File Edit View Terminal Tabs Help
matheus@xubuntu:~/matheus/curso de terminal$ ls
mat.txt
matheus@xubuntu:~/matheus/curso de terminal$ mv mat.txt curso_de_terminal.txt
matheus@xubuntu:~/matheus/curso de terminal$ ls
curso_de_terminal.txt
matheus@xubuntu:~/matheus/curso de terminal$ cat curso_de_terminal.txt
Modo de edicao de arquivo!

Matheus Augusto de Almeida Santos
12011EMT001
matheus@xubuntu:~/matheus/curso de terminal$
```



.cp

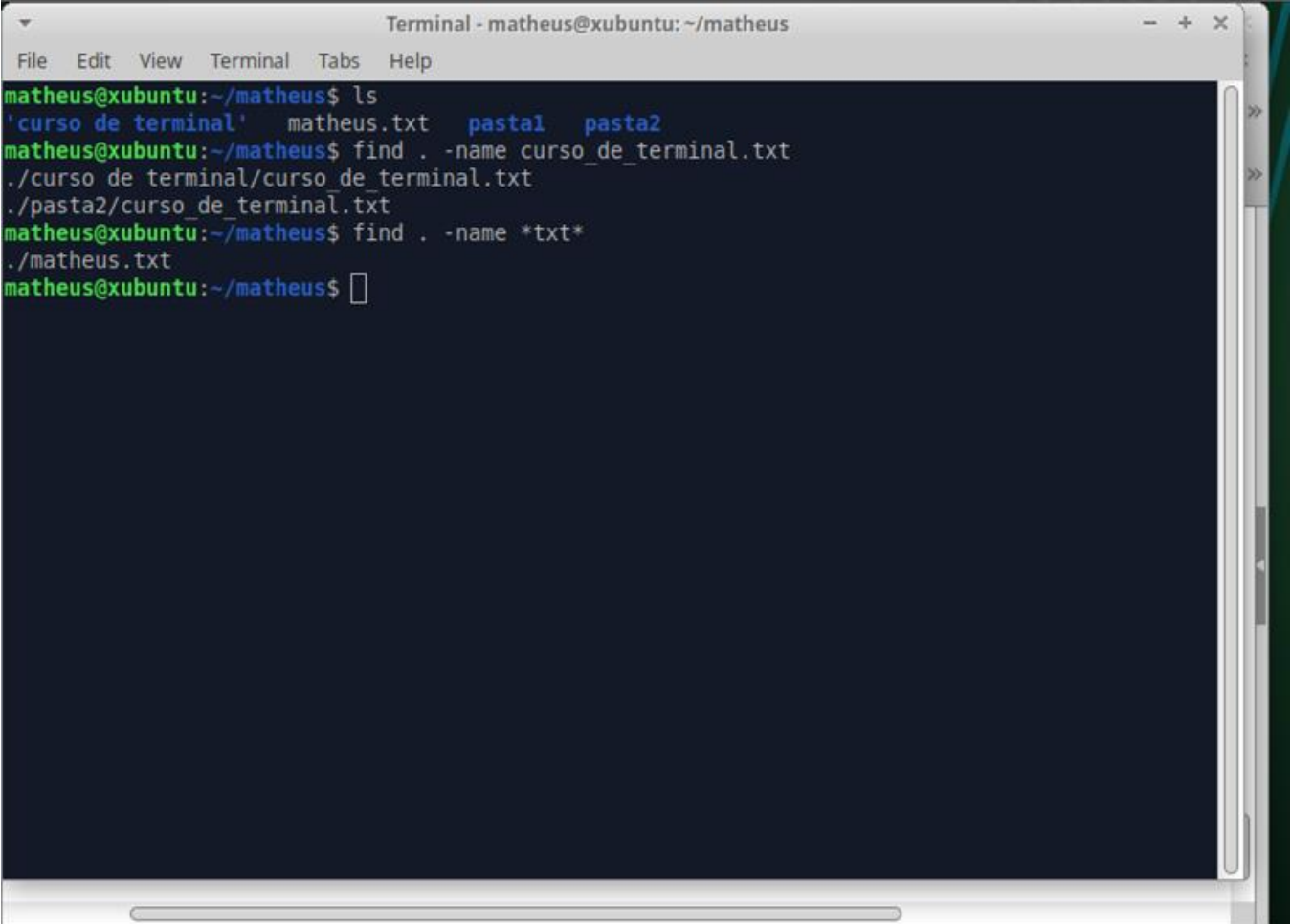
A terminal window titled "Terminal - matheus@xubuntu: ~/matheus/pasta2" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows a series of commands and their outputs: copying a file, changing directories, listing files, and displaying the contents of a text file.

```
matheus@xubuntu:~/matheus/curso de terminal$ cp curso_de_terminal.txt ~/matheus/pasta2/
matheus@xubuntu:~/matheus/curso de terminal$ cd ..
matheus@xubuntu:~/matheus$ ls
'curso de terminal'  matheus.txt  pasta1  pasta2
matheus@xubuntu:~/matheus$ cd pasta2
matheus@xubuntu:~/matheus/pasta2$ ls
curso_de_terminal.txt
matheus@xubuntu:~/matheus/pasta2$ cat curso_de_terminal.txt
Modo de edicao de arquivo!

Matheus Augusto de Almeida Santos
12011EMT001

matheus@xubuntu:~/matheus/pasta2$
```

. find

A terminal window titled "Terminal - matheus@xubuntu: ~/matheus" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows the following commands and output:

```
matheus@xubuntu:~/matheus$ ls
'curso de terminal'  matheus.txt  pasta1  pasta2
matheus@xubuntu:~/matheus$ find . -name curso_de_terminal.txt
./curso de terminal/curso de terminal.txt
./pasta2/curso_de_terminal.txt
matheus@xubuntu:~/matheus$ find . -name *txt*
./matheus.txt
matheus@xubuntu:~/matheus$
```

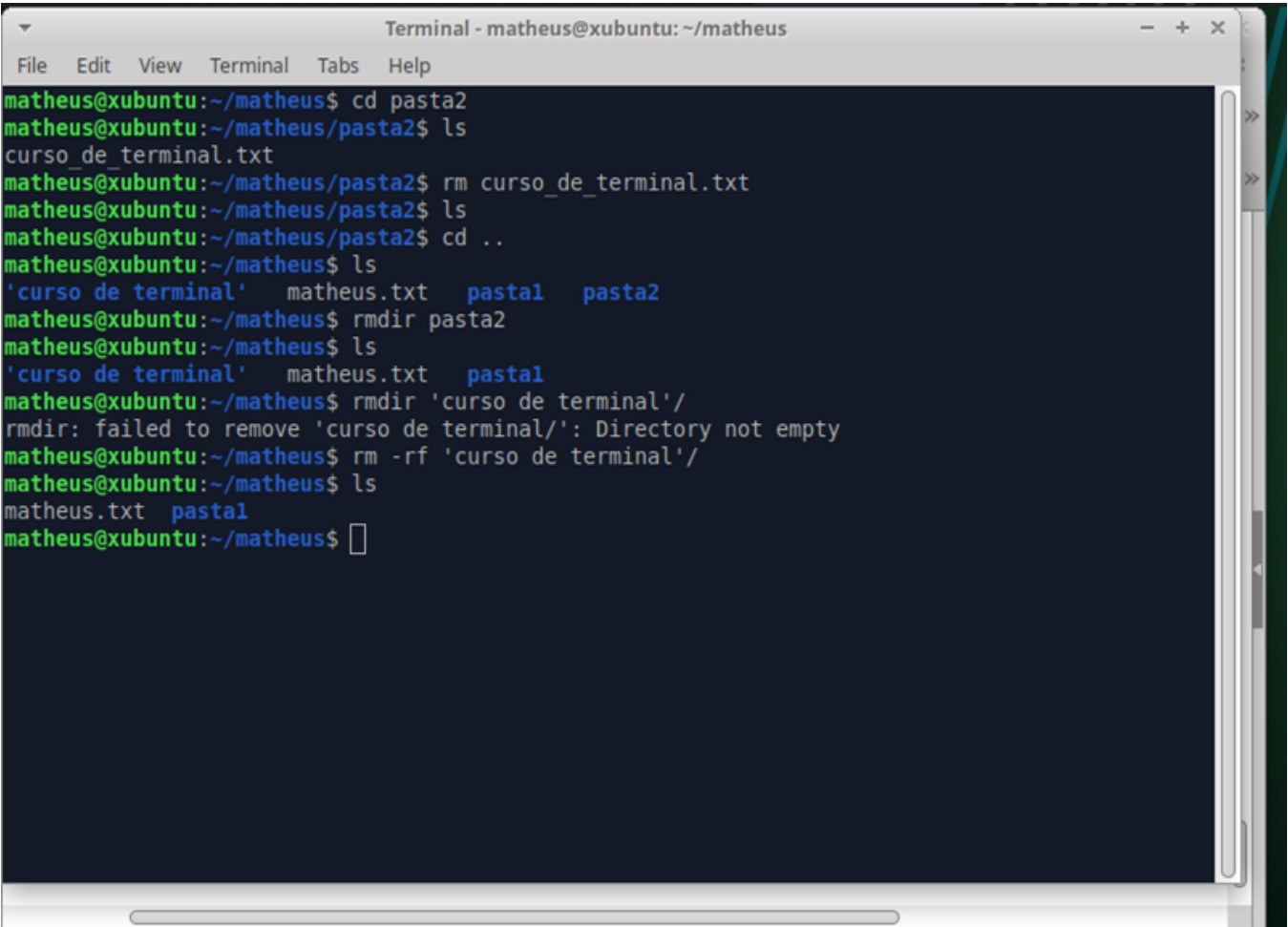
. head & tail

```
Terminal - matheus@xubuntu: /var/log
File Edit View Terminal Tabs Help
apt          dist-upgrade  journal      unattended-upgrades
auth.log     dmesg         kern.log     vboxadd-install.log
boot.log     dmesg.0       lastlog      vboxadd-setup.log
bootstrap.log dpkg.log      lightdm      vboxpostinstall.log
btmptmp      faillog       private      wtmp
cloud-init.log fontconfig.log README        Xorg.0.log
cloud-init-output.log gpu-manager.log speech-dispatcher Xorg.0.log.old
matheus@xubuntu:/var/log$ head dpkg.log
2024-08-27 14:17:33 startup archives install
2024-08-27 14:17:33 install base-passwd:amd64 <none> 3.6.3build1
2024-08-27 14:17:33 status half-installed base-passwd:amd64 3.6.3build1
2024-08-27 14:17:33 status unpacked base-passwd:amd64 3.6.3build1
2024-08-27 14:17:33 configure base-passwd:amd64 3.6.3build1 3.6.3build1
2024-08-27 14:17:33 status half-configured base-passwd:amd64 3.6.3build1
2024-08-27 14:17:33 status installed base-passwd:amd64 3.6.3build1
2024-08-27 14:17:33 startup archives install
2024-08-27 14:17:33 install base-files:amd64 <none> 13ubuntu10
2024-08-27 14:17:33 status half-installed base-files:amd64 13ubuntu10
matheus@xubuntu:/var/log$ tail dpkg.log
2024-09-22 19:36:58 status installed man-db:amd64 2.12.0-4build2
2024-09-22 19:36:58 trigproc dbus:amd64 1.14.10-4ubuntu4.1 <none>
2024-09-22 19:36:58 status half-configured dbus:amd64 1.14.10-4ubuntu4.1
2024-09-22 19:36:58 status installed dbus:amd64 1.14.10-4ubuntu4.1
2024-09-22 19:36:58 trigproc initramfs-tools:all 0.142ubuntu25.1 <none>
2024-09-22 19:36:58 status half-configured initramfs-tools:all 0.142ubuntu25.1
2024-09-22 19:36:58 status installed initramfs-tools:all 0.142ubuntu25.1
2024-09-22 19:36:58 trigproc linux-image-6.8.0-41-generic:amd64 6.8.0-41.41 <none>
2024-09-22 19:36:58 status half-configured linux-image-6.8.0-41-generic:amd64 6.8.0-41.41
2024-09-22 19:36:58 status installed linux-image-6.8.0-41-generic:amd64 6.8.0-41.41
matheus@xubuntu:/var/log$
```

.less

```
Terminal - matheus@xubuntu: /var/log
File Edit View Terminal Tabs Help
2024-08-27 14:17:33 configure base-passwd:amd64 3.6.3build1 3.6.3build1
2024-08-27 14:17:33 status half-configured base-passwd:amd64 3.6.3build1
2024-08-27 14:17:33 status installed base-passwd:amd64 3.6.3build1
2024-08-27 14:17:33 startup archives install
2024-08-27 14:17:33 install base-files:amd64 <none> 13ubuntu10
2024-08-27 14:17:33 status half-installed base-files:amd64 13ubuntu10
2024-08-27 14:17:33 status unpacked base-files:amd64 13ubuntu10
2024-08-27 14:17:33 configure base-files:amd64 13ubuntu10 13ubuntu10
2024-08-27 14:17:33 status half-configured base-files:amd64 13ubuntu10
2024-08-27 14:17:33 status installed base-files:amd64 13ubuntu10
2024-08-27 14:17:33 startup archives install
2024-08-27 14:17:33 upgrade dpkg 1.22.6ubuntu6 1.22.6ubuntu6
2024-08-27 14:17:33 status half-configured dpkg 1.22.6ubuntu6
2024-08-27 14:17:33 status unpacked dpkg 1.22.6ubuntu6
2024-08-27 14:17:33 status half-installed dpkg 1.22.6ubuntu6
2024-08-27 14:17:33 status unpacked dpkg:amd64 1.22.6ubuntu6
2024-08-27 14:17:33 configure dpkg:amd64 1.22.6ubuntu6 1.22.6ubuntu6
2024-08-27 14:17:33 status half-configured dpkg:amd64 1.22.6ubuntu6
2024-08-27 14:17:34 status installed dpkg:amd64 1.22.6ubuntu6
2024-08-27 14:17:34 startup archives install
2024-08-27 14:17:34 install libc6:amd64 <none> 2.39-0ubuntu8
2024-08-27 14:17:34 status half-installed libc6:amd64 2.39-0ubuntu8
2024-08-27 14:17:34 status unpacked libc6:amd64 2.39-0ubuntu8
2024-08-27 14:17:34 configure libc6:amd64 2.39-0ubuntu8 2.39-0ubuntu8
2024-08-27 14:17:34 status half-configured libc6:amd64 2.39-0ubuntu8
2024-08-27 14:17:34 status installed libc6:amd64 2.39-0ubuntu8
2024-08-27 14:17:34 startup archives install
2024-08-27 14:17:34 install perl-base:amd64 <none> 5.38.2-3.2build2
2024-08-27 14:17:34 status half-installed perl-base:amd64 5.38.2-3.2build2
:|
```

.rm / rmdir / rm -rf



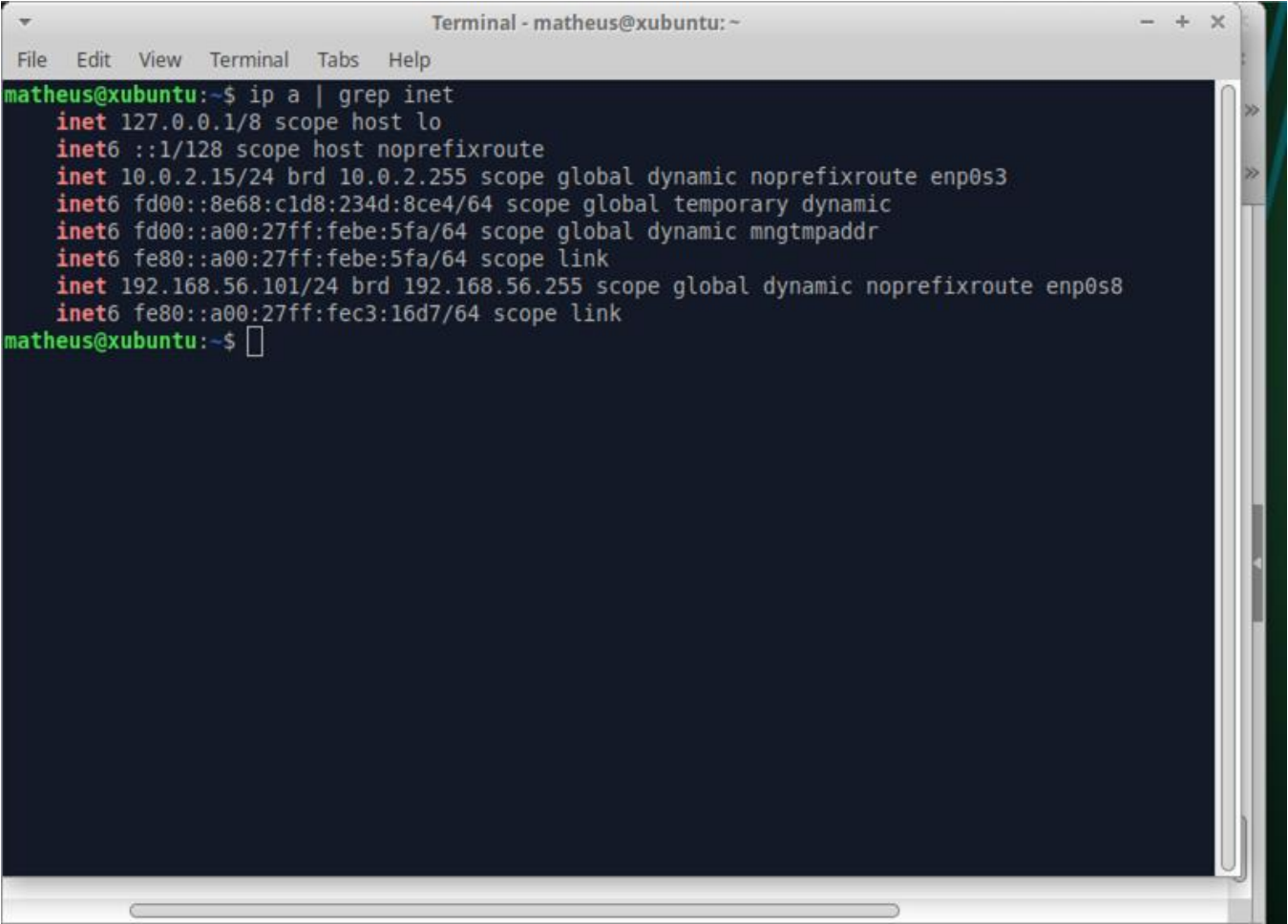
```
Terminal - matheus@xubuntu: ~/matheus
File Edit View Terminal Tabs Help
matheus@xubuntu:~/matheus$ cd pasta2
matheus@xubuntu:~/matheus/pasta2$ ls
curso_de_terminal.txt
matheus@xubuntu:~/matheus/pasta2$ rm curso_de_terminal.txt
matheus@xubuntu:~/matheus/pasta2$ ls
matheus@xubuntu:~/matheus/pasta2$ cd ..
matheus@xubuntu:~/matheus$ ls
'curso de terminal' matheus.txt pasta1 pasta2
matheus@xubuntu:~/matheus$ rmdir pasta2
matheus@xubuntu:~/matheus$ ls
'curso de terminal' matheus.txt pasta1
matheus@xubuntu:~/matheus$ rmdir 'curso de terminal'
rmdir: failed to remove 'curso de terminal/': Directory not empty
matheus@xubuntu:~/matheus$ rm -rf 'curso de terminal'
matheus@xubuntu:~/matheus$ ls
matheus.txt pasta1
matheus@xubuntu:~/matheus$
```



.hostname / hostname -I / ip a

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
matheus@xubuntu:~$ hostname
xubuntu
matheus@xubuntu:~$ cat /etc/hostname
xubuntu
matheus@xubuntu:~$ hostname -I
10.0.2.15 192.168.56.101 fd00::8e68:c1d8:234d:8ce4 fd00::a00:27ff:febe:5fa
matheus@xubuntu:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default
qlen 1000
    link/ether 08:00:27:be:05:fa brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 77278sec preferred_lft 77278sec
    inet6 fd00::8e68:c1d8:234d:8ce4/64 scope global temporary dynamic
        valid_lft 86169sec preferred_lft 14169sec
    inet6 fd00::a00:27ff:febe:5fa/64 scope global dynamic mngtmpaddr
        valid_lft 86169sec preferred_lft 14169sec
    inet6 fe80::a00:27ff:febe:5fa/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default
qlen 1000
    link/ether 08:00:27:c3:16:d7 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global dynamic noprefixroute enp0s8
        valid_lft 477sec preferred_lft 477sec
```

.grep



A terminal window titled "Terminal - matheus@xubuntu: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows the command `ip a | grep inet` and its output. The output lists several network interfaces and their associated IP addresses and scopes. The prompt `matheus@xubuntu:~$` is followed by a cursor.

```
matheus@xubuntu:~$ ip a | grep inet
inet 127.0.0.1/8 scope host lo
inet6 ::1/128 scope host noprefixroute
inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
inet6 fd00::8e68:c1d8:234d:8ce4/64 scope global temporary dynamic
inet6 fd00::a00:27ff:febe:5fa/64 scope global dynamic mngtmpaddr
inet6 fe80::a00:27ff:febe:5fa/64 scope link
inet 192.168.56.101/24 brd 192.168.56.255 scope global dynamic noprefixroute enp0s8
inet6 fe80::a00:27ff:fec3:16d7/64 scope link
matheus@xubuntu:~$
```

. ping

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
matheus@xubuntu:~$ ping google.com
PING google.com (172.217.30.46) 56(84) bytes of data:
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=1 ttl=255 time=517 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=2 ttl=255 time=37.4 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=3 ttl=255 time=51.5 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=4 ttl=255 time=73.0 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=5 ttl=255 time=79.8 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=6 ttl=255 time=99.4 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=7 ttl=255 time=112 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=8 ttl=255 time=133 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=9 ttl=255 time=152 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=10 ttl=255 time=172 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=11 ttl=255 time=191 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=12 ttl=255 time=211 ms
64 bytes from gru10s10-in-f14.1e100.net (172.217.30.46): icmp_seq=13 ttl=255 time=231 ms
^C
--- google.com ping statistics ---
13 packets transmitted, 13 received, 0% packet loss, time 12044ms
rtt min/avg/max/mdev = 37.365/158.326/517.176/118.908 ms
matheus@xubuntu:~$
```

.free -h & free -m

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
matheus@xubuntu:~$ free -h
              total        used        free      shared  buff/cache   available
Mem:           2.4Gi       867Mi       741Mi       7.3Mi       955Mi       1.5Gi
Swap:           0B           0B           0B
matheus@xubuntu:~$ free -m
              total        used        free      shared  buff/cache   available
Mem:           2408         866         741          7         956        1542
Swap:           0           0           0
matheus@xubuntu:~$
```



.top

```
Linux XUBUNTU VM [Executando] - Oracle VirtualBox
Arquivo Maquina Visualizar Entrada Dispositivos Ajuda
Documento1.odt — LibreO... Terminal - matheus@xubuntu...

Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help

top - 20:18:19 up 13 min, 1 user, load average: 0.51, 0.26, 0.15
Tasks: 176 total, 1 running, 175 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.2 us, 0.2 sy, 0.0 ni, 99.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 2408.9 total, 181.5 free, 1019.7 used, 1367.5 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 1389.2 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 1371 root        20   0 363492 102384 55764 S   1.3   4.2   0:10.80 Xorg
   551 message+  20   0  11032   6400   4480 S   0.3   0.3   0:00.41 dbus-daemon
  1328 root        20   0 293184   3840   3456 S   0.3   0.2   0:00.09 VBoxService
 2662 matheus    20   0 469712  47180  37228 S   0.3   1.9   0:01.39 xfce4-terminal
    1 root        20   0  22740  13692   9340 S   0.0   0.6   0:01.60 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
    8 root        20   0      0      0      0 I   0.0   0.0   0:00.16 kworker/0:0-events
   10 root         0 -20      0      0      0 I   0.0   0.0   0:00.04 kworker/0:0H-kblockd
   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
```

.htop

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help

0[|] 2.0%] Tasks: 99, 264 thr, 79 kthr; 1 running
1[|] 1.3%] Load average: 0.11 0.18 0.13
Mem[|] 892M/2.35G] Uptime: 00:15:29
Swp[|] 0K/0K]

Main I/O
  PID USER      PRI  NI   VIRT   RES   SHR  S  CPU% MEM%     TIME+  Command
 1423 root        20   0 368M  112M 55800 S  2.6  4.7   0:04.80 /usr/lib/xorg/Xorg -core :0 -seat seat0 -auth
 3300 matheus    20   0 8576  4736 3584 R  2.6  0.2   0:00.67 htop
 1371 root        20   0 368M  112M 55800 S  0.7  4.7   0:07.60 /usr/lib/xorg/Xorg -core :0 -seat seat0 -auth
 1875 matheus    20   0 209M  2976 2688 S  0.7  0.1   0:00.33 /usr/bin/VBoxClient --seamless
 1883 matheus    20   0 210M  3104 2688 S  0.7  0.1   0:00.88 /usr/bin/VBoxClient --draganddrop
 1998 matheus    20   0 299M  6400 5760 S  0.7  0.3   0:00.08 /usr/lib/x86_64-linux-gnu/xfce4/xfconf/xfconfd
 2662 matheus    20   0 458M  47308 37356 S  0.7  1.9   0:01.72 /usr/bin/xfce4-terminal
    1 root        20   0 22740 13692 9340 S  0.0  0.6   0:01.61 /sbin/init splash
  235 root        19  -1 67092 17336 16184 S  0.0  0.7   0:00.20 /usr/lib/systemd/systemd-journald
  302 root        20   0 30328 8400 4944 S  0.0  0.3   0:00.16 /usr/lib/systemd/systemd-udevd
  379 systemd-re  20   0 21584 12672 10496 S  0.0  0.5   0:00.08 /usr/lib/systemd/systemd-resolved
  544 root        20   0 303M  7672 7032 S  0.0  0.3   0:00.05 /usr/libexec/accounts-daemon
  547 avahi        20   0 8612  4352 3968 S  0.0  0.2   0:00.04 avahi-daemon: running [xubuntu.local]
  550 root        20   0 6824  2688 2560 S  0.0  0.1   0:00.00 /usr/sbin/cron -f -P
  551 messagebus  20   0 11036 6528 4480 S  0.0  0.3   0:00.44 @dbus-daemon --system --address=systemd: --nof

F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice F8Nice +F9Kill F10Quit
```

.ps; ps aux

```
Terminal - matheus@xubuntu: ~  
File Edit View Terminal Tabs Help  
matheus@xubuntu:~$ ps  
  PID TTY          TIME CMD  
 2671 pts/0    00:00:00 bash  
 3332 pts/0    00:00:00 ps  
matheus@xubuntu:~$ ps aux  
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND  
root         1   0.1  0.5 22740 13692 ?        Ss   20:04   0:01 /sbin/init splash  
root         2   0.0  0.0      0     0 ?        S    20:04   0:00 [kthreadd]  
root         3   0.0  0.0      0     0 ?        S    20:04   0:00 [pool_workqueue_release]  
root         4   0.0  0.0      0     0 ?        I<   20:04   0:00 [kworker/R-rcu_g]  
root         5   0.0  0.0      0     0 ?        I<   20:04   0:00 [kworker/R-rcu_p]  
root         6   0.0  0.0      0     0 ?        I<   20:04   0:00 [kworker/R-slub_]  
root         7   0.0  0.0      0     0 ?        I<   20:04   0:00 [kworker/R-netns]  
root         8   0.0  0.0      0     0 ?        I    20:04   0:00 [kworker/0:0-events]  
root        10   0.0  0.0      0     0 ?        I<   20:04   0:00 [kworker/0:0H-kblockd]  
root        12   0.0  0.0      0     0 ?        I<   20:04   0:00 [kworker/R-mm_pe]  
root        13   0.0  0.0      0     0 ?        I    20:04   0:00 [rcu_tasks_kthread]  
root        14   0.0  0.0      0     0 ?        I    20:04   0:00 [rcu_tasks_rude_kthread]  
root        15   0.0  0.0      0     0 ?        I    20:04   0:00 [rcu_tasks_trace_kthread]  
root        16   0.0  0.0      0     0 ?        S    20:04   0:00 [ksoftirqd/0]  
root        17   0.0  0.0      0     0 ?        I    20:04   0:00 [rcu_preempt]  
root        18   0.0  0.0      0     0 ?        S    20:04   0:00 [migration/0]  
root        19   0.0  0.0      0     0 ?        S    20:04   0:00 [idle_inject/0]  
root        20   0.0  0.0      0     0 ?        S    20:04   0:00 [cpuhp/0]  
root        21   0.0  0.0      0     0 ?        S    20:04   0:00 [cpuhp/1]  
root        22   0.0  0.0      0     0 ?        S    20:04   0:00 [idle_inject/1]  
root        23   0.0  0.0      0     0 ?        S    20:04   0:00 [migration/1]  
root        24   0.0  0.0      0     0 ?        S    20:04   0:00 [ksoftirqd/1]
```

.df -h

```
Terminal - matheus@xubuntu: ~  
File Edit View Terminal Tabs Help  
matheus@xubuntu:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
tmpfs            241M  1.4M  240M   1% /run  
/dev/sda2        69G   7.0G   58G  11% /  
tmpfs            1.2G     0  1.2G   0% /dev/shm  
tmpfs            5.0M   8.0K   5.0M   1% /run/lock  
tmpfs            241M 128K  241M   1% /run/user/1000  
SEII            477G  284G  193G  60% /media/sf_SEII  
matheus@xubuntu:~$
```

.ncdu

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
ncdu 1.19 ~ Use the arrow keys to navigate, press ? for help
--- /home/matheus -----
39.7 MiB [#####] /snap
3.8 MiB [#] /.config
2.4 MiB [#] /.cache
1.4 MiB [ ] /Documents
108.0 KiB [ ] /.local
20.0 KiB [ ] /Templates
8.0 KiB [ ] .xsession-errors.old
8.0 KiB [ ] .xsession-errors
4.0 KiB [ ] /Desktop
e 4.0 KiB [ ] /matheus
e 4.0 KiB [ ] /Videos
e 4.0 KiB [ ] /Public
e 4.0 KiB [ ] /Pictures
e 4.0 KiB [ ] /Music
e 4.0 KiB [ ] /Downloads
4.0 KiB [ ] /.ssh
4.0 KiB [ ] .bashrc
4.0 KiB [ ] .Xdefaults
4.0 KiB [ ] .bash_history
4.0 KiB [ ] .profile
4.0 KiB [ ] .bash_logout
4.0 KiB [ ] .Xauthority
4.0 KiB [ ] .dmrc
4.0 KiB [ ] .lesshst
4.0 KiB [ ] .xscreensaver
Total disk usage: 47.5 MiB Apparent size: 46.6 MiB Items: 597
```

.uname

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
matheus@xubuntu:~$ uname
Linux
matheus@xubuntu:~$ uname -r
6.8.0-45-generic
matheus@xubuntu:~$
```

.lscpu

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help

matheus@xubuntu:~$ lscpu
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 48 bits physical, 48 bits virtual
Byte Order: Little Endian
CPU(s): 2
On-line CPU(s) list: 0,1
Vendor ID: AuthenticAMD
Model name: AMD Ryzen 3 3000X 6-Core Processor
CPU family: 23
Model: 113
Thread(s) per core: 1
Core(s) per socket: 2
Socket(s): 1
Stepping: 0
BogoMIPS: 7585.75
Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht sy
scall nx mmxext fxsr_opt rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid tsc_known_f
req_pni pclmulqdq sse3 fma cx16 sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand hypervisor
lahf_lm cmp_legacy cr8_legacy abm sse4a misalignsse 3dnowprefetch ssbd vmmcall fsgsbase bmi1 avx2 bmi2
rdseed adx clflushopt sha_ni xsaveerptr arat
Virtualization features:
Hypervisor vendor: KVM
Virtualization type: full
Caches (sum of all):
L1d: 64 KiB (2 instances)
L1i: 64 KiB (2 instances)
L2: 1 MiB (2 instances)
L3: 64 MiB (2 instances)
NUMA:
NUMA node(s): 1
NUMA node0 CPU(s): 0,1
Vulnerabilities:
Gather data sampling: Not affected
Itlb multihit: Not affected
L1tf: Not affected
Mds: Not affected
Meltdown: Not affected
Mmio stale data: Not affected
Reg file data sampling: Not affected
Retbleed: Mitigation; untrained return thunk; SMT disabled
```

.lsusb; lspci

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help

matheus@xubuntu:~$ lsusb
Bus 001 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 001 Device 002: ID 80ee:0021 VirtualBox USB Tablet
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
matheus@xubuntu:~$ lspci | grep USB
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:0b.0 USB controller: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
matheus@xubuntu:~$
```

.lsblk

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
matheus@xubuntu:~$ lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 4K 1 loop /snap/bare/5
loop1 7:1 0 74.3M 1 loop /snap/core22/1612
loop2 7:2 0 10.7M 1 loop /snap/firmware-updater/127
loop3 7:3 0 74.2M 1 loop /snap/core22/1621
loop4 7:4 0 269.8M 1 loop /snap/firefox/4793
loop5 7:5 0 505.1M 1 loop /snap/gnome-42-2204/176
loop6 7:6 0 91.7M 1 loop /snap/gtk-common-themes/1535
loop7 7:7 0 10.5M 1 loop /snap/snap-store/1173
loop8 7:8 0 38.8M 1 loop /snap/snapd/21759
loop9 7:9 0 500K 1 loop /snap/snapd-desktop-integration/178
loop11 7:11 0 149.8M 1 loop /snap/thunderbird/517
loop12 7:12 0 149.9M 1 loop /snap/thunderbird/526
sda 8:0 0 70G 0 disk
├─sda1 8:1 0 1M 0 part
└─sda2 8:2 0 70G 0 part /
sr0 11:0 1 1024M 0 rom
matheus@xubuntu:~$
```

.history

```
Terminal - matheus@xubuntu: ~
File Edit View Terminal Tabs Help
105 htop
106 clear
107 ps
108 ps aux
109 clear
110 df -h
111 clear
112 ncdu
113 sudo apt install ncdu
114 clear
115 ncdu
116 clear
117 uname
118 uname -r
119 clear
120 lscpu
121 clear
122 lsusb
123 lspci | grep USB
124 clear
125 lsblk
126 clear
127 history
matheus@xubuntu:~$
```