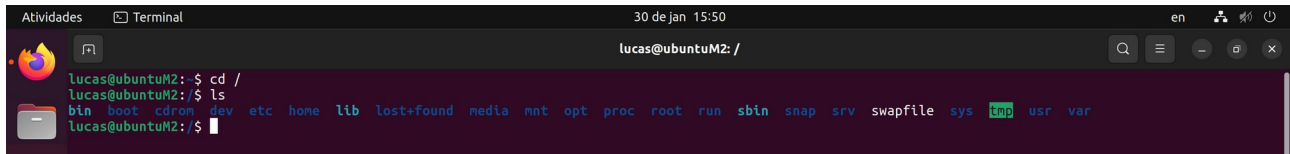


Semana 01b

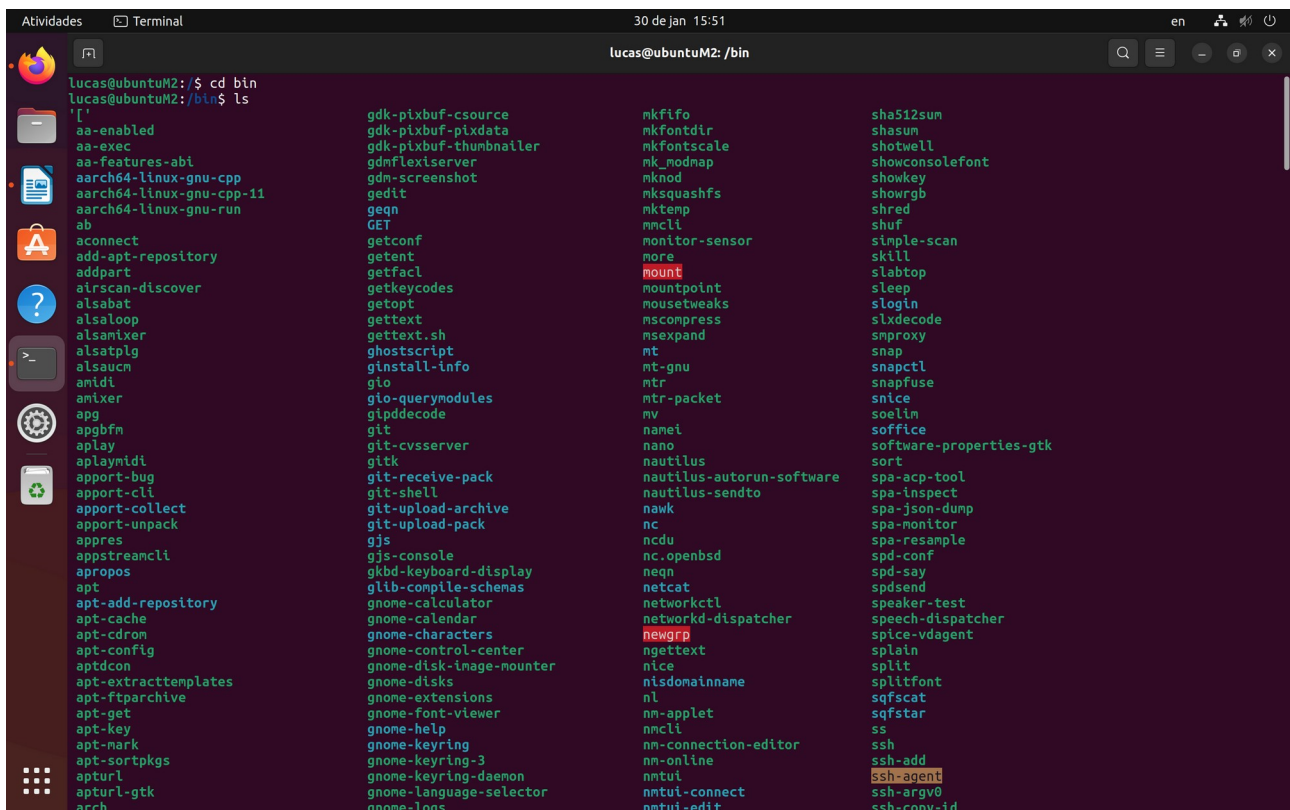
Exercício 3

1. cd/



```
Atividades Terminal 30 de jan 15:50 en
lucas@ubuntuM2:~$ cd /
lucas@ubuntuM2:/$ ls
bin boot cdrom dev etc home lib lost+found media mnt opt proc root run sbin snap srv swapfile sys tmp usr var
lucas@ubuntuM2:/$
```

2. cd bin (binaries and essential executables)



```
Atividades Terminal 30 de jan 15:51 en
lucas@ubuntuM2:~$ cd bin
lucas@ubuntuM2:~/bin$ ls
'['
aa-enabled
aa-exec
aa-features-abi
aarch64-linux-gnu-cpp
aarch64-linux-gnu-cpp-11
aarch64-linux-gnu-run
ab
aconnect
add-apt-repository
addpart
airscan-discover
alsabat
alsaaloop
alsamixer
alsatplg
alsaucm
amidi
amixer
apg
apgbfm
aplay
aplaymidi
apport-bug
apport-cli
apport-collect
apport-unpack
appres
appstreamcli
apropos
apt
apt-add-repository
apt-cache
apt-cdrom
apt-config
aptdcon
apt-extracttemplates
apt-ftparchive
apt-get
apt-key
apt-mark
apt-sortpkgs
apturl
apturl-gtk
arch
gdk-pixbuf-csource
gdk-pixbuf-pixdata
gdk-pixbuf-thumbnailer
gdmflexiserver
gdm-screenshot
gedit
geqn
GET
getconf
getent
getfacl
getkeycodes
getopt
gettext
gettext.sh
ghostscript
ginstall-info
gio
gio-querymodules
gipddcode
git
git-cvsserver
gitk
git-receive-pack
git-shell
git-upload-archive
git-upload-pack
gjs
gjs-console
gkbd-keyboard-display
glib-compile-schemas
gnome-calculator
gnome-calendar
gnome-characters
gnome-control-center
gnome-disk-image-mounter
gnome-disks
gnome-extensions
gnome-font-viewer
gnome-help
gnome-keyring
gnome-keyring-3
gnome-keyring-daemon
gnome-language-selector
gnome-logs
mkfifo
mkfontdir
mkfontscale
mk_modmap
mknod
mksquashfs
mktemp
nmcli
monitor-sensor
none
mount
mountpoint
mousetweaks
mscompress
msexpand
mt
mt-gnu
mtr
mtr-packet
mv
namei
nano
nautilus
nautilus-autorun-software
nautilus-sendto
nawk
nc
ncdu
nc.openbsd
neqn
netcat
networkctl
networkd-dispatcher
newgrp
ngettext
nice
nisdomainname
nl
nm-applet
nmcli
nm-connection-editor
nm-online
nmtui
nmtui-connect
nmtui-edit
sha512sum
shasum
shotwell
showconsolefont
showkey
showrgb
shred
shuf
simple-scan
skill
slabtop
sleep
slogin
slxdecode
smproxy
snap
snapctl
snapfuse
snice
soelim
soffice
software-properties-gtk
sort
spa-acp-tool
spa-inspect
spa-json-dump
spa-monitor
spa-resample
spd-conf
spd-say
spd-send
speaker-test
speech-dispatcher
spice-vdagent
splain
split
splitfont
sqfscat
sqfstar
ss
ssh
ssh-add
ssh-agent
ssh-argv0
ssh-copy-id
```

3. cd sbin (system binaries and essential executables for super user – root)

```
Atividades Terminal 30 de jan 15:53
lucas@ubuntuM2: /sbin$ ls
a2disconf      cracklib-packer      fstab-decode      irqbalance-ui      ntfsundelete      switch_root
a2dismod      cracklib-unpacker    fstrim            isosize            on_ac_power       sysctl
a2dissite     create-cracklib-dict gdisk             ispell-autobuildhash openvpn            tarcat
a2enconf      cron                genl              iwconfig           pan-auth-update   tc
a2enmod      ctrllaltdel         getcap           iwevent           pan_extrausers_chkpwd telinit
a2ensite     cupsaccept          getpcaps        lwgetid           pan_extrausers_update tipc
a2query      cups-browsed        getty           lwlist            pan_getenv        tune2fs
aa-remove-unknown cupsctl             getweb          iwpriv            pan_timestamp_check tzconfig
aa-status    cupsd               gnome-menus-blacklist kbd             paperconfig       ufw
aa-teardown  cupsdisable         groupadd        kbdrate          parted            umount.udisks2
accessdb     cupsenable         groupdel        kerneloops       partprobe         unix_chkpwd
addgnupghome cupsfilter          groupmems       killall5          pccardctl         unix_update
addgroup     cupsreject         groupmod        ldattach          pivot_root        update-ca-certificates
add-shell    dcb               groupunconv     ldconfig          plymouthd         update-catalog
adduser      debugfs           grpck           ldconfig.real     poweroff          update-cracklib
agetty       delgroup          grpconv         locale-gen        pppd              update-default-aspell
alsa         deluser           grub-install    logrotate         pppdump           update-default-ispell
alsabat-test depmod            grub-macbless   logsave           pppoe-discovery   update-default-wordlist
alsactl      devlink           grub-mkconfig   losetup           pppstats          update-dictcommon-hunspell
alsa-info    dhcpcd            grub-mkdevicemap lpc               pptpsetup         update-fonts-alias
anacron      dmidecode         grub-probe      lpadmin           pwck              update-fonts-dir
apache2      dnsmasq           grub-reboot     lpmove            pwconv            update-fonts-scale
apache2ctl   dnmstats          grub-set-default lsmod             pwnunconv         update-grub
apachectl    dosfstools        hdparm          make-ssl-cert     readprofile       update-grub2
apparmor_parser dosfsck           htdb            mkdosfs           reboot            update-gsfontmap
apparmor_status dosfslabel        httxt2dbn       mkfs               remove-default-ispell update-icon-caches
apd          dpkg-preconfigure hwclock          mkfs.bfs           remove-default-wordlist update-inetd
arpd         dpkg-reconfigure  iconvconfig     mkfs.cramfs        remove-shell      update-info-dir
arptables    dumpe2fs          insmod           mkfs.ext2          resize2fs         update-initramfs
arptables-nft e2fsck            installkernel   mkfs.ext3          rfmkill           update-locale
arptables-nft-restore e2img            install-sgmlcatalog mkfs.ext4          rmmod             update-mime
arptables-nft-save e2label          invoke-rc.d      mkfs.fat           rmt               update-passwd
arptables-restore e2mmsstatus      ip              nftables           rmt-tar           update-pciids
arptables-save e2mmsstatus      ip              nftables           rsyslogd         update-rc.d
```

4. cd lib (shared code between binaries)

```
Atividades Terminal 30 de jan 15:54
lucas@ubuntuM2: /lib$ ls
aarch64-linux-gnu file          ld-linux-aarch64.so.1 pcmciautils      tc
apache2            firewallld   libreoffice         pkgconf           tcltk
apg                firmware    linux              pm-utils          terminfo
apparmor           gcc          linux-boot-probes  policykit-1       thunderbird
apt                girepository-1.0 git-core          polkit-1          thunderbird-addons
aspell             gnome-session tmpfiles.d         pppd              tmpfiles.d
bluetooth          gnome-settings-daemon-3.0 gdm              ubuntu-advantage  ubiquity
brltty             gnome-settings-daemon-42 gnome-shell       ubuntu-release-upgrader udev
cgi-bin            gnuage      gnupg2             ufw
cnf-update-db      gnupg       groff              update-notifier   update-notifier
command-not-found  gnupg2      groff              update-notifier   update-notifier
console-setup      groff       groff              update-notifier   update-notifier
cpp                grub        grub              update-notifier   update-notifier
crda               gvfs        grub              update-notifier   update-notifier
cups              hddm        grub              update-notifier   update-notifier
dbus-1.0           init         grub              update-notifier   update-notifier
debug             initramfs-tools ispell           os-prober         os-prober
dpkg              kernel      klibc             os-prober         os-prober
enacsen-common    klibc       klibc-SVGXscWF9n0evB_HZqdVSV05I.so pan.d             pan.d
environment.d     klibc       klibc-SVGXscWF9n0evB_HZqdVSV05I.so pan.d             pan.d
evolution-data-server klibc       klibc-SVGXscWF9n0evB_HZqdVSV05I.so pan.d             pan.d
lucas@ubuntuM2: /lib$
```

4. cd usr (non essential installed binaries)

```
Atividades Terminal 30 de jan 15:55
lucas@ubuntuM2: /usr$ ls
bin  games  include  lib  libexec  local  sbin  share  src
```

5. cd etc (editable text config)

```
Atividades Terminal 30 de jan 15:57 en
lucas@ubuntuM2: /etc
lucas@ubuntuM2:~$ cd etc
lucas@ubuntuM2:/etc$ ls
adduser.conf      cron.weekly      group            legal            NetworkManager  rc6.d            systemd
alsa              cups             group-cups      libao.conf       networks        rcS.d            terminfo
alternatives     cups-helpers     grub.d          libaudit.conf   newt            resolv.conf     timezone
anacrontab       dbus-1          gshadow         libblockdev     nftables.conf   rmt             tmpfiles.d
apache2          debconf.conf    gshadow-gss     libn1-3         nsswitch.conf   rpc             ubuntu-advantage
apg.conf         debian_version  gss             libpaper.d      openvpn         rsyslog.conf    ucf.conf
apm              default         gtk-2.0         libreoffice     os-release      sane.d          udev
apparmor         deluser.conf    gtk-3.0         locale.alias    PackageKit     rygel.conf      udisks2
appport          depmod.d        hdpam.conf     localtime       pam.conf       sensors3.conf   ufw
appstream.conf   dhcp           host.conf       login.defs      pan.d          security        update-manager
apt              dictionaries-common dpkg            logrotate.conf  papersize     services        update-notifier
avahi            dpkg            hosts           logrotate.d     passwd        sensors.d       UPower
bash.bashrc      e2scrub.conf   hosts.allow    lsb-release     pcncla        shadow          usb_modeswitch.conf
bash_completion  emacs          hosts.deny     machine-id      perl           shadow-switch.d usb_modeswitch.d
bash_completion.d environment     hp             magic           pki            shadow-wrappers vdpau_wrapper.cfg
bindresvport.blacklist envtypes       ifplugd        magic.mime      pnm2ppa.conf  shells         vin
binfmt.d         firefox        init.d         mailcap         polkit-1      skel            vtrgb
bluetooth        fonts          initramfs-tools mailcap.order   profile       speech-dispatcher vulkan
brlapi.key       fprintd.conf   inputrc        mime.types     ppp           ssh             wgetrc
brltty           fstab          iproute2       modemmanager    profile.d     ssl             wpa_supplicant
ca-certificates fuse.conf      issue          modules         protocols     subgid          xattr.conf
ca-certificates.conf dnf.conf      issue.net      modules-load.d python3         subuid          xdg
ca-certificates.conf.dpkg-old gdo.conf      kernel         modules-load.d python3.10     subuid          xml
chatscripts      gdm3           kernel-img.conf mtab           python3.10    sudo.conf      zsh_command_not_found
console-setup    geoclue        kernel-loops.conf nanorc         rc0.d          sudoers        xz
cracklib         ghostscript     ldapp          network         rc1.d          sudo_logsrvd.conf sysctl.conf
cron.d           gitweb.conf    ld.so.cache    networkd-dispatcher rc2.d          sysctl.d
cron.daily       glvnd          ld.so.conf     netplan         rc3.d
cron.hourly      gnome          ld.so.conf.d   networkd         rc4.d
cron.monthly     groff          ld.so.conf.d   networkd-dispatcher rc5.d
```

6. cd home (user data)

```
Atividades Terminal 30 de jan 15:57 en
lucas@ubuntuM2: /home
lucas@ubuntuM2:~$ cd home
lucas@ubuntuM2:/home$ ls
lucas
lucas@ubuntuM2:/home$
```

7. cd dev (device files)

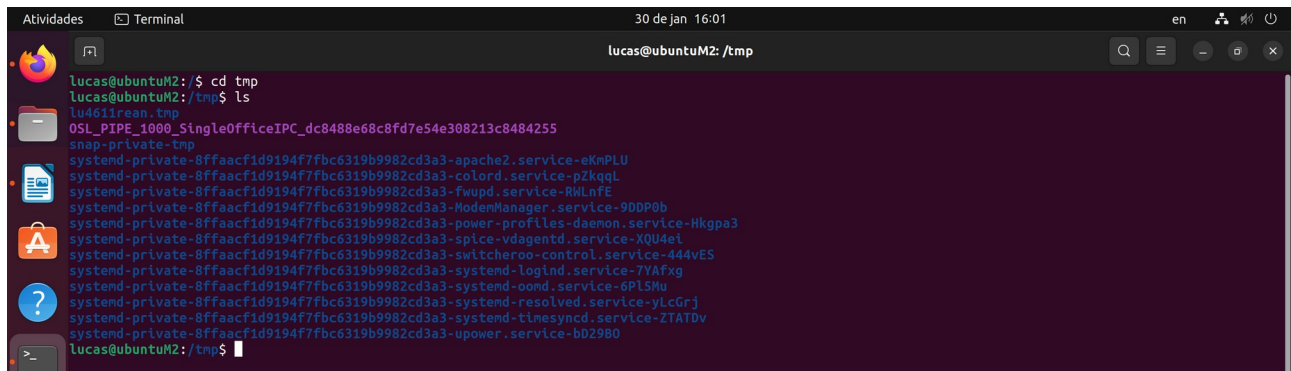
```
Atividades Terminal 30 de jan 15:58 en
lucas@ubuntuM2: /dev
lucas@ubuntuM2:~$ cd dev
lucas@ubuntuM2:/dev$ ls
autofs      ecryptfs    loop0      null       stderr     tty18      tty30      tty43      tty56      tty50      ttyS21     ttyS6      vcs4      vcsu4      zero
block       fb0         loop1      port       stdin      tty19      tty31      tty44      tty57      ttyS1      ttyS22     ttyS7      vcs5      vcsu5
bsg         fd          loop2      ppp        stdout     tty2       tty32      tty45      tty58      ttyS10     ttyS23     ttyS8      vcs6      vcsu6
btrfs-control full        loop3      psaux      tty        tty20      tty33      tty46      tty59      ttyS11     ttyS24     ttyS9      vcsa      vda
bus         fuse        loop4      ptmx       tty0       tty21      tty34      tty47      tty6       ttyS12     ttyS25     udmabuf   vcsa1     vda1
cdrom       hidraw0     loop5      pts        tty1       tty22      tty35      tty48      tty60      ttyS13     ttyS26     uhid      vcsa2     vda2
char        hidraw1     loop6      random     tty10      tty23      tty36      tty49      tty61      ttyS14     ttyS27     uinput   vcsa3     vfio
console     hidraw2     loop7      rfkill     tty11      tty24      tty37      tty5       tty62      ttyS15     ttyS28     urandom   vcsa4     vga_arbiter
core        hugepages  loop8      rtc        tty12      tty25      tty38      tty50      tty63      ttyS16     ttyS29     userfaultfd vcsa5     vhci
cpu_dma_latency hwrng      loop-control rtc0       tty13      tty26      tty39      tty51      tty7       ttyS17     ttyS3     userio    vcsa6     vhost-net
cuse        initctl    mapper     sg0        tty14      tty27      tty4       tty52      tty8       ttyS18     ttyS30     vcs      vcsu     vhost-vsock
disk        input      mem        shm        tty15      tty28      tty40      tty53      tty9       ttyS19     ttyS31     vcs1     vcsu1    virtio-ports
dma_heap    kmsg       mqemue     snd        tty16      tty29      tty41      tty54      ttyAMA0    ttyS2      ttyS4     vcs2     vcsu2    vport3p1
dri         log        net        sr0        tty17      tty3       tty42      tty55      ttyprintk  ttyS20     ttyS5     vcs3     vcsu3    vport3p2
```

8. cd opt (optional softwares)

9. cd var (variable files)

```
Atividades Terminal 30 de jan 16:00 en
lucas@ubuntuM2: /var
lucas@ubuntuM2:~$ cd var
lucas@ubuntuM2:/var$ ls
backups cache crash lib local lock log mail metrics opt run snap spool tmp www
lucas@ubuntuM2:/var$
```

10. cd tmp (temporary files)



11. `cd /proc` (track of running processes)

