

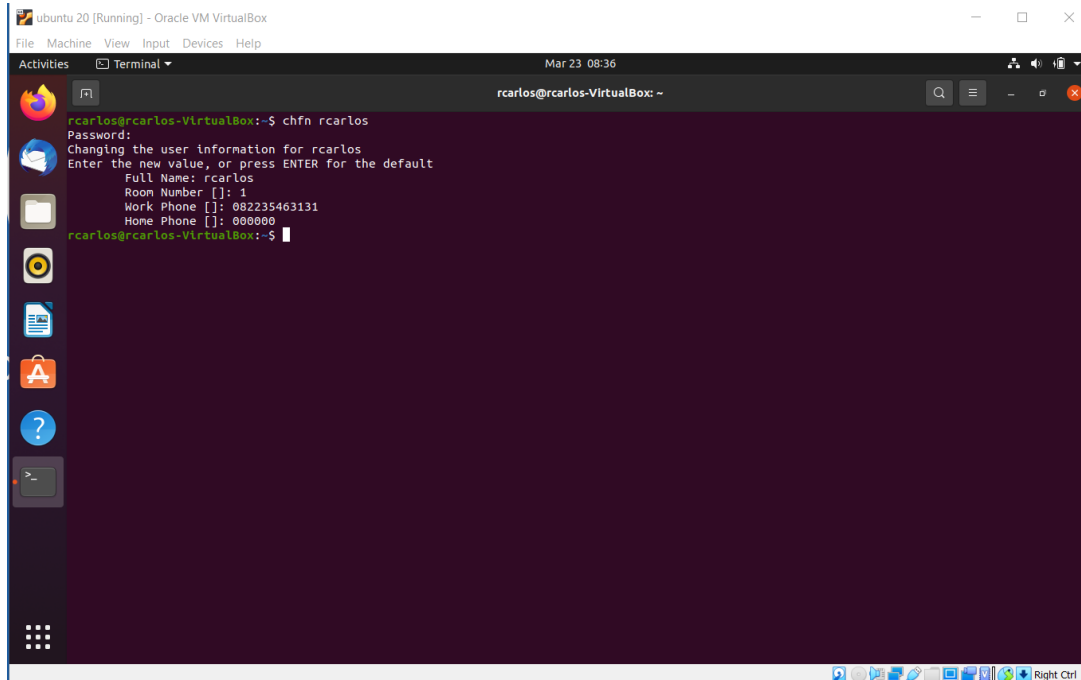
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Kelaa : Sistem Operasi A

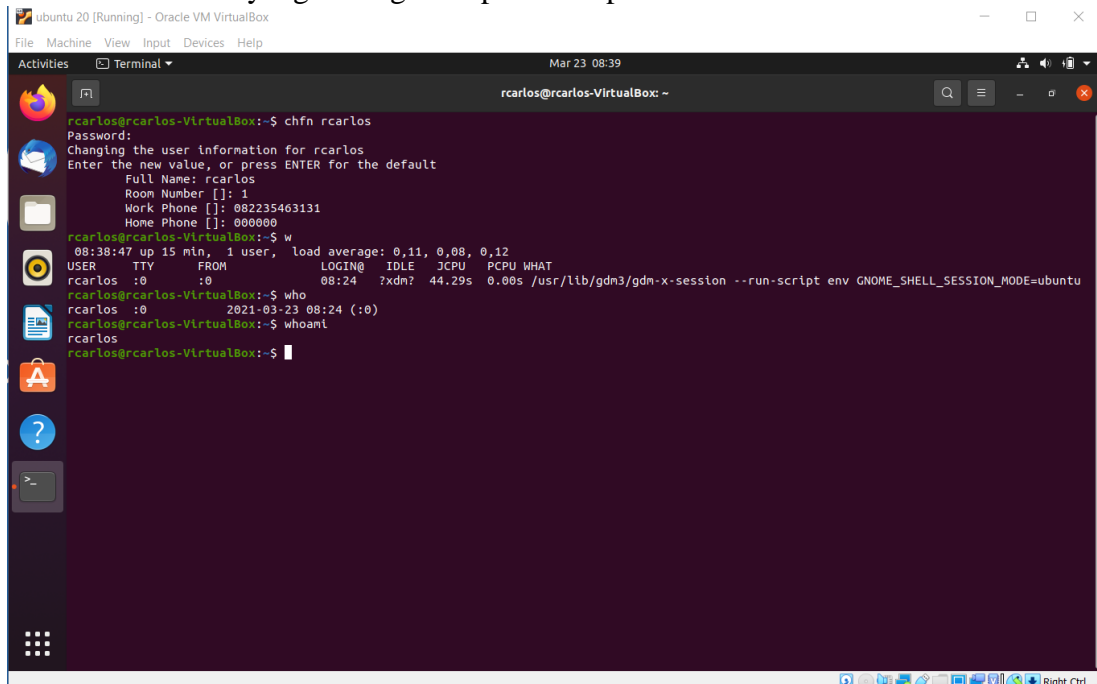
Tugas Praktikum

1. Ubahlah informasi finger pada komputer Anda.



```
rcarlos@rcarlos-VirtualBox:~$ chfn rcarlos
Password:
Changing the user information for rcarlos
Enter the new value, or press ENTER for the default
Full Name: rcarlos
Room Number []: 1
Work Phone []: 082235463131
Home Phone []: 000000
rcarlos@rcarlos-VirtualBox:~$
```

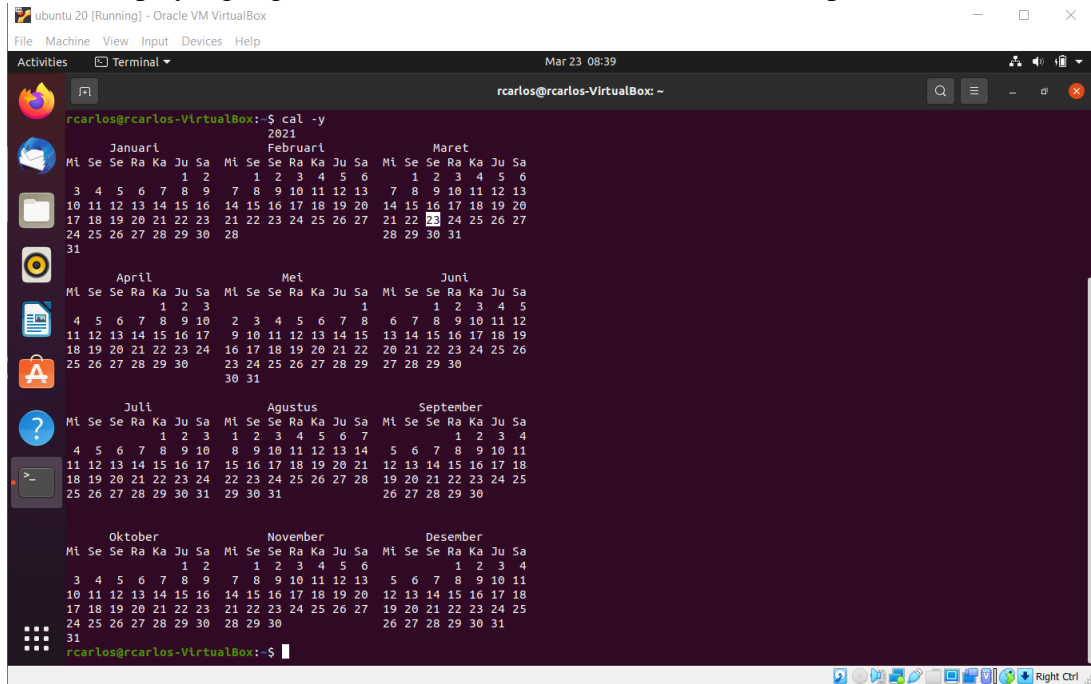
2. Lihatlah user-user yang sedang aktif pada komputer Anda.



```
rcarlos@rcarlos-VirtualBox:~$ w
08:38:47 up 15 min, 1 user, load average: 0,11, 0,08, 0,12
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
rcarlos    :0                08:24    ?xdn?  44.29s  0.00s  /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu

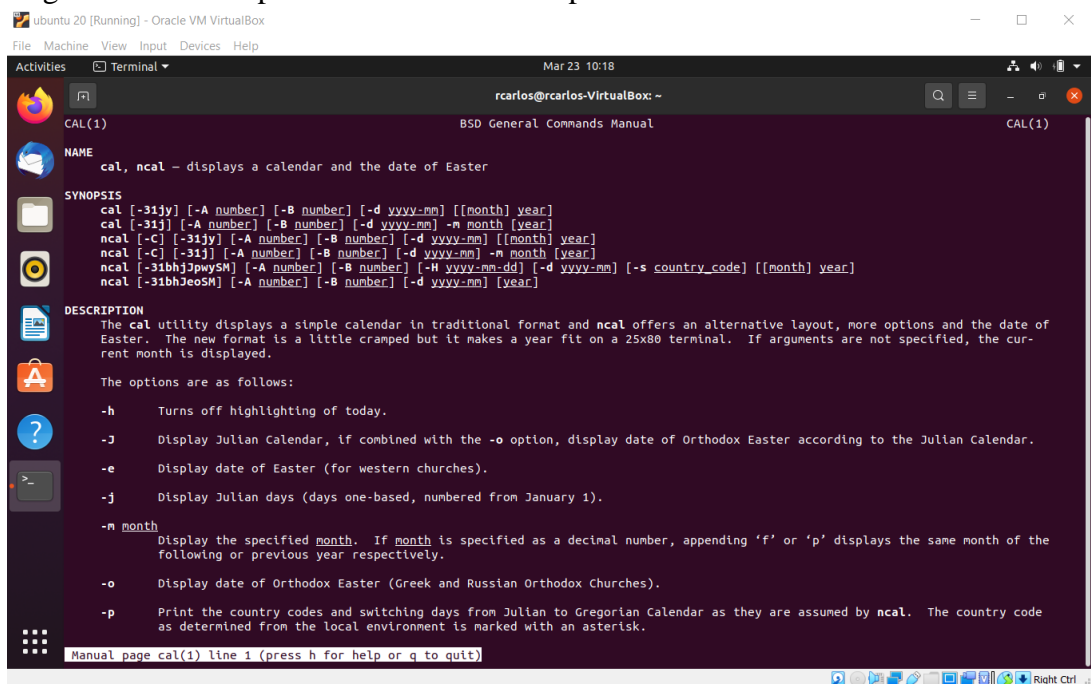
rcarlos@rcarlos-VirtualBox:~$ who
rcarlos    :0                2021-03-23 08:24 (:0)
rcarlos@rcarlos-VirtualBox:~$ whoami
rcarlos
rcarlos@rcarlos-VirtualBox:~$
```

3. Perintah apa yang digunakan untuk melihat kalender satu tahun penuh ?



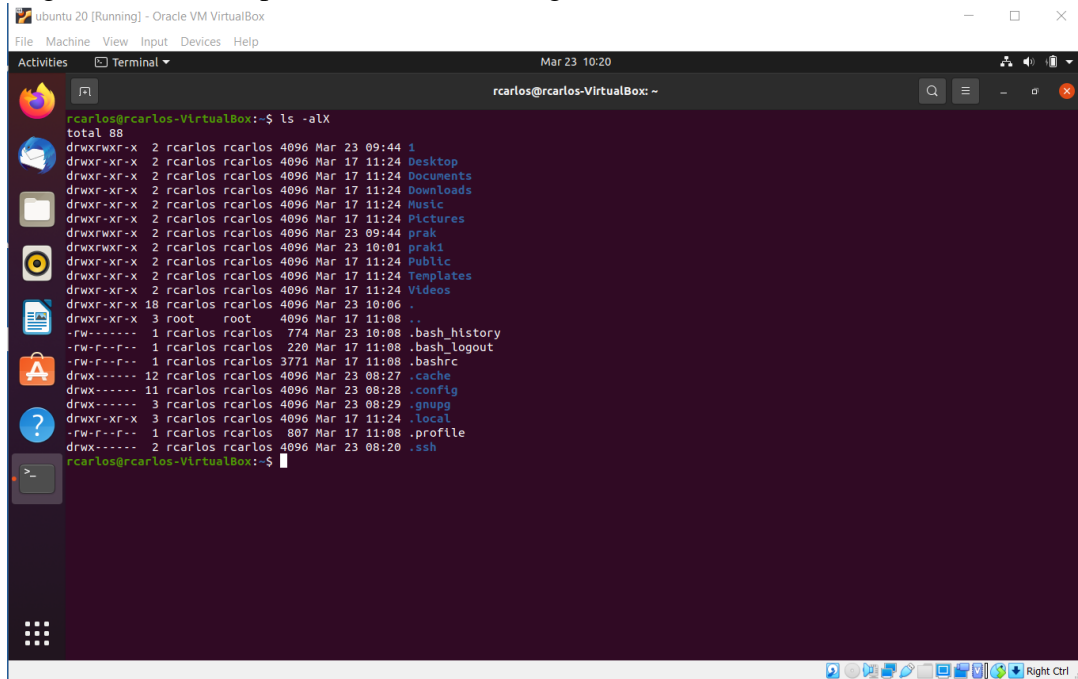
```
rcarlos@rcarlos-VirtualBox:~$ cal -y
2021
January February March
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
April May June
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
July August September
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
October November December
Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa Mi Se Sa Ra Ka Ju Sa
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
```

4. Bagaimana anda dapat melihat manual dari perintah cal ?



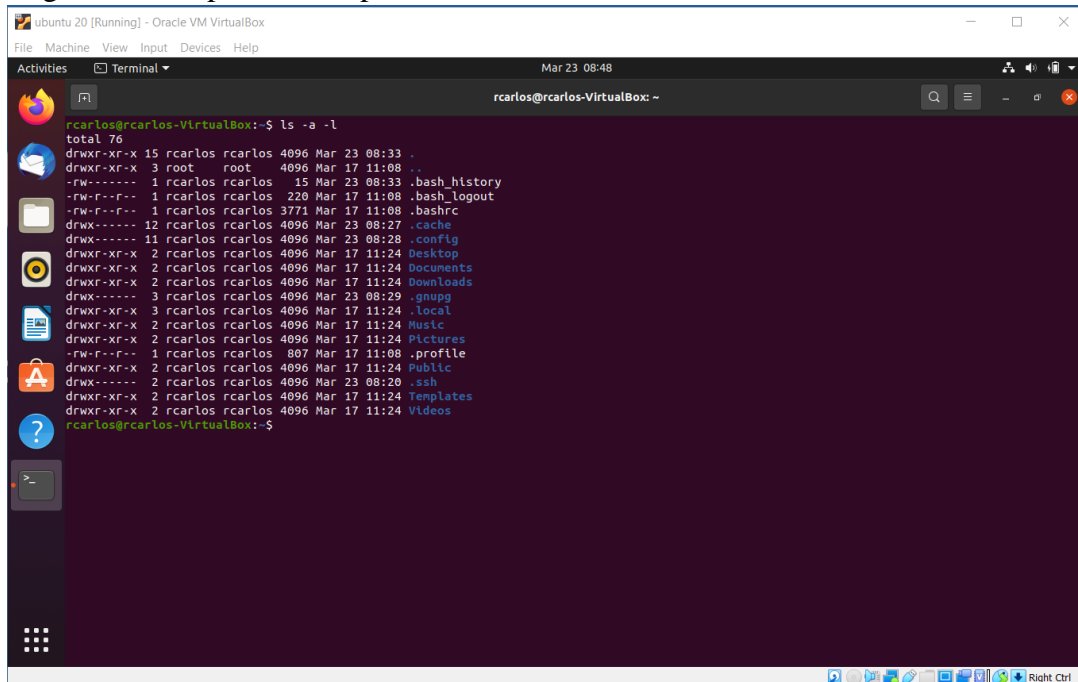
```
rcarlos@rcarlos-VirtualBox:~$ man cal
CAL(1)
NAME
    cal, ncal - displays a calendar and the date of Easter
SYNOPSIS
    cal [-3ijy] [-A number] [-B number] [-d yyyy-mm] [[month] year]
    cal [-3ij] [-A number] [-B number] [-d yyyy-mm] -m month [year]
    ncal [-c] [-3ijy] [-A number] [-B number] [-d yyyy-mm] [[month] year]
    ncal [-c] [-3ij] [-A number] [-B number] [-d yyyy-mm] -m month [year]
    ncal [-31bhjpwysM] [-A number] [-B number] [-H yyyy-mm-dd] [-d yyyy-mm] [-s country_code] [[month] year]
    ncal [-31bhjeosM] [-A number] [-B number] [-d yyyy-mm] [year]
DESCRIPTION
    The cal utility displays a simple calendar in traditional format and ncal offers an alternative layout, more options and the date of Easter. The new format is a little cramped but it makes a year fit on a 25x80 terminal. If arguments are not specified, the current month is displayed.
    The options are as follows:
    -h    Turns off highlighting of today.
    -J    Display Julian calendar, if combined with the -o option, display date of Orthodox Easter according to the Julian Calendar.
    -e    Display date of Easter (for western churches).
    -j    Display Julian days (days one-based, numbered from January 1).
    -m month
        Display the specified month. If month is specified as a decimal number, appending 'f' or 'p' displays the same month of the following or previous year respectively.
    -o    Display date of Orthodox Easter (Greek and Russian Orthodox Churches).
    -p    Print the country codes and switching days from Julian to Gregorian Calendar as they are assumed by ncal. The country code as determined from the local environment is marked with an asterisk.
Manual page cal(1) line 1 (press h for help or q to quit)
```

5. Bagaimana melihat perintah manual ls dengan kata kunci sort?



```
rcarlos@rcarlos-VirtualBox:~$ ls -alX
total 88
drwxrwxr-x 2 rcarlos rcarlos 4096 Mar 23 09:44 1
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Desktop
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Documents
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Downloads
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Music
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Pictures
drwxrwxr-x 2 rcarlos rcarlos 4096 Mar 23 09:44 prak
drwxrwxr-x 2 rcarlos rcarlos 4096 Mar 23 10:01 prak1
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Public
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Templates
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Videos
drwxr-xr-x 18 rcarlos rcarlos 4096 Mar 23 10:06 .
drwxr-xr-x 3 root root 4096 Mar 17 11:08 ..
-rw-r--r-- 1 rcarlos rcarlos 774 Mar 23 10:08 .bash_history
-rw-r--r-- 1 rcarlos rcarlos 220 Mar 17 11:08 .bash_logout
-rw-r--r-- 1 rcarlos rcarlos 3771 Mar 17 11:08 .bashrc
drwx----- 12 rcarlos rcarlos 4096 Mar 23 08:27 .cache
drwx----- 11 rcarlos rcarlos 4096 Mar 23 08:28 .config
drwx----- 3 rcarlos rcarlos 4096 Mar 23 08:29 .gnupg
drwxr-xr-x 3 rcarlos rcarlos 4096 Mar 17 11:24 .local
-rw-r--r-- 1 rcarlos rcarlos 807 Mar 17 11:08 .profile
drwx----- 2 rcarlos rcarlos 4096 Mar 23 08:20 .ssh
rcarlos@rcarlos-VirtualBox:~$
```

6. Bagaimana tampilan untuk perintah ls -a -l dan ls -al?



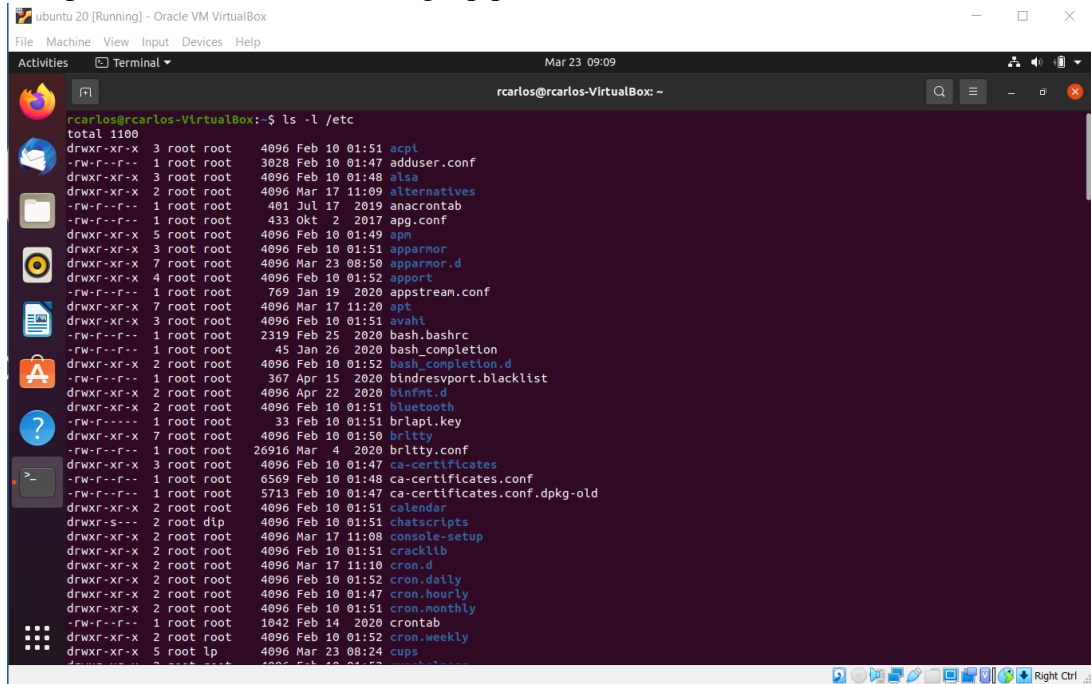
```
rcarlos@rcarlos-VirtualBox:~$ ls -a -l
total 76
drwxr-xr-x 15 rcarlos rcarlos 4096 Mar 23 08:33 .
drwxr-xr-x 3 root root 4096 Mar 17 11:08 ..
-rw-r--r-- 1 rcarlos rcarlos 15 Mar 23 08:33 .bash_history
-rw-r--r-- 1 rcarlos rcarlos 220 Mar 17 11:08 .bash_logout
-rw-r--r-- 1 rcarlos rcarlos 3771 Mar 17 11:08 .bashrc
drwx----- 12 rcarlos rcarlos 4096 Mar 23 08:27 .cache
drwx----- 11 rcarlos rcarlos 4096 Mar 23 08:28 .config
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Desktop
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Documents
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Downloads
drwx----- 3 rcarlos rcarlos 4096 Mar 23 08:29 .gnupg
drwxr-xr-x 3 rcarlos rcarlos 4096 Mar 17 11:24 .local
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Music
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Pictures
-rw-r--r-- 1 rcarlos rcarlos 807 Mar 17 11:08 .profile
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Public
drwx----- 2 rcarlos rcarlos 4096 Mar 23 08:20 .ssh
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Templates
drwxr-xr-x 2 rcarlos rcarlos 4096 Mar 17 11:24 Videos
rcarlos@rcarlos-VirtualBox:~$
```

```
ubuntu 20 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 23 08:49
rcarlos@rcarlos-VirtualBox: ~
rcarlos@rcarlos-VirtualBox:~$ ls -al
total 76
drwxr-xr-x 15 rcarlos rcarlos 4096 Mar 23 08:33 .
drwxr-xr-x  3 root    root    4096 Mar 17 11:08 ..
-rw-r----- 1 rcarlos rcarlos  15 Mar 23 08:33 .bash_history
-rw-r----- 1 rcarlos rcarlos 220 Mar 17 11:08 .bash_logout
-rw-r----- 1 rcarlos rcarlos 3771 Mar 17 11:08 .bashrc
drwx----- 12 rcarlos rcarlos 4096 Mar 23 08:27 .cache
drwx----- 11 rcarlos rcarlos 4096 Mar 23 08:28 .config
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Desktop
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Documents
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Downloads
drwxr-xr-x  3 rcarlos rcarlos 4096 Mar 23 08:29 .gnupg
drwxr-xr-x  3 rcarlos rcarlos 4096 Mar 17 11:24 .local
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Music
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Pictures
-rw-r----- 1 rcarlos rcarlos 807 Mar 17 11:08 .profile
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Public
drwx----- 2 rcarlos rcarlos 4096 Mar 23 08:20 .ssh
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Templates
drwxr-xr-x  2 rcarlos rcarlos 4096 Mar 17 11:24 Videos
rcarlos@rcarlos-VirtualBox:~$
```

7. Tampilkan semua file termasuk yang hidden file pada direktori /etc

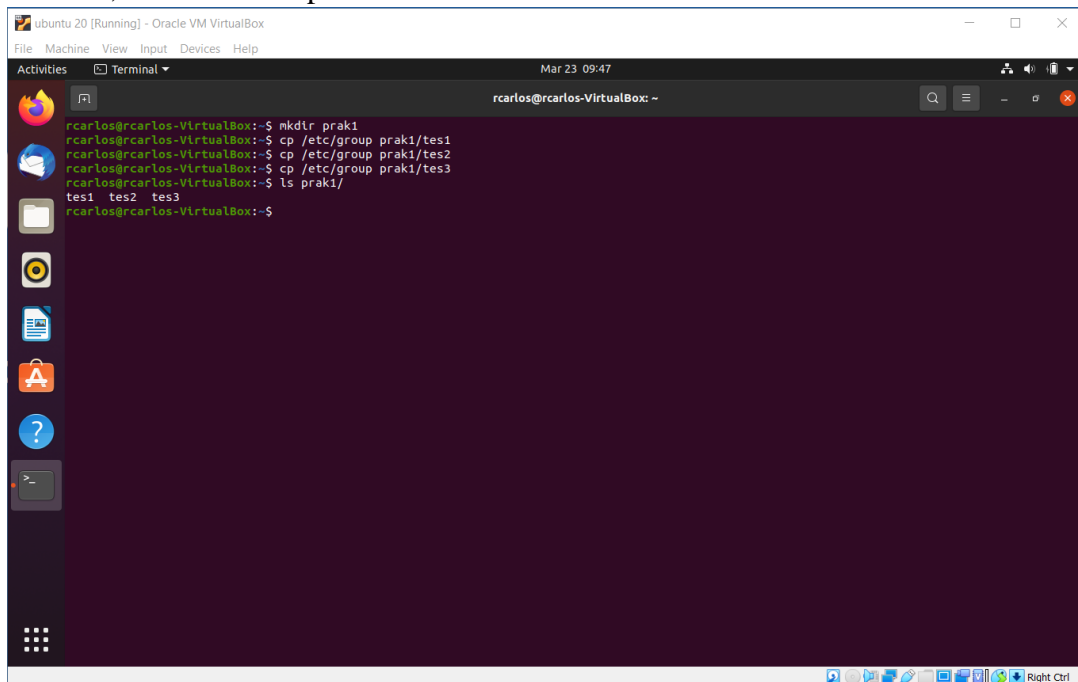
```
ubuntu 20 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 23 09:06
rcarlos@rcarlos-VirtualBox: ~
rcarlos@rcarlos-VirtualBox:~$ ls -a /etc
.
..
acpi
adduser.conf
also
alternatives
anacrontab
apg.conf
apm
apparmor
apparmor.d
appport
appstream.conf
apt
avahi
bash.bashrc
bash_completion
bash_completion.d
bindresport.blacklist
binfmt.d
bluetooth
brltty.key
brltty
brltty.conf
ca-certificates
ca-certificates.conf.dpkg-old
calendar
chatscripts
console-setup
cracklib
cron.d
cron.daily
cron.hourly
cron.monthly
crontab
cron.weekly
cupshelpers
dbus-1
dconf
debconf.conf
debian_version
default
deluser.conf
depmod.d
dhcp
dictionaries-common
dpkg
e2scrub.conf
emacs
environment
environment.d
ethertypes
firefox
fonts
fprintd.conf
fstab
fuse.conf
fwupd
gai.conf
gamemode.ini
gdb
gdm3
geoclue
ghostscript
glvnd
gnome
groff
group
group.d
gshadow
gshadow-
gss
gtk-3.0
hdparm.conf
host.conf
hostid
hostname
hosts
hosts.allow
hosts.deny
hp
lftplugd
init
init.d
initramfs-tools
inputrc
inserv.conf.d
iproute2
issue
issue.net
kernel
kernel-img.conf
kerneloops.conf
ldap
ld.so.cache
ld.so.conf
ld.so.conf.d
legal
libao.conf
libaudit.conf
libblockdev
libnl-3
libpaper.d
libreoffice
papersize
locale.alias
locale.gen
localtime
logcheck
login.defs
logrotate.d
lsb-release
ltrace.conf
machine-id
magic
magic.mime
mailcap
mailcap.order
manpath.config
mime.types
mke2fs.conf
modprobe.d
modules
modules-load.d
mtab
mttools.conf
mysql
nanorc
netplan
network
networkd-dispatcher
NetworkManager
networks
newt
nsswitch.conf
openvpn
opt
os-release
PackageKit
pan.conf
pan.d
papersize
passwd
passwd-
pcmcia
perl
pkc
pnm2ppa.conf
polkit-1
popularity-contest.conf
ppp
profile
profile.d
protocols
pulse
.pwd.lock
python3
python3.8
rc0.d
rc1.d
rc2.d
rc3.d
rc4.d
rc5.d
rc6.d
rcS.d
resolv.conf
rmt
rpc
rsyslog.conf
rsyslog.d
rsyslog.conf
rygel.conf
sane.d
security
selinux
sensors3.conf
sensors.d
services
sgml
shadow
shadow-
shells
skel
snmp
ssh
ssl
subgid
subgid-
subuid
subuid-
sudoers
sudoers.d
sysctl.conf
sysctl.d
systemd
terminfo
thermald
thunderbird
timezone
tmpfiles.d
ubuntu-advantage
ucf.conf
udev
udisks2
urw
update-manager
update-notif.d
update-notifier
UPower
usb_modeswitch.conf
usb_modeswitch.d
vin
vmware-tools
vtrgb
volman
wgetrc
wpa_supplicant
Xi1
xattr.conf
xdg
xdl
xml
```

8. Tampilkan semua file secara lengkap pada direktori /etc.



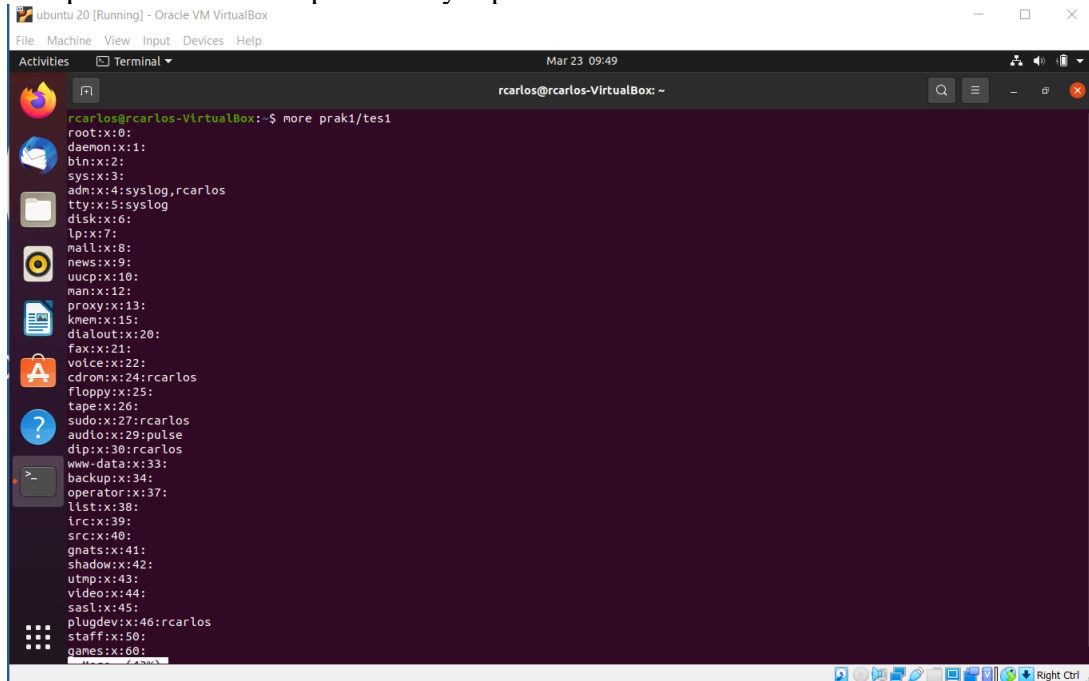
```
rcarlos@rcarlos-VirtualBox:~$ ls -l /etc
total 1100
drwxr-xr-x 3 root root 4096 Feb 10 01:51 acpi
-rw-r--r-- 1 root root 3028 Feb 10 01:47 adduser.conf
drwxr-xr-x 3 root root 4096 Feb 10 01:48 alsa
drwxr-xr-x 2 root root 4096 Mar 17 11:09 alternatives
-rw-r--r-- 1 root root 481 Jul 17 2019 anacrontab
-rw-r--r-- 1 root root 433 Okt 2 2017 app.conf
drwxr-xr-x 5 root root 4096 Feb 10 01:49 app
drwxr-xr-x 3 root root 4096 Feb 10 01:51 apparmor
drwxr-xr-x 7 root root 4096 Mar 23 08:50 apparmor.d
drwxr-xr-x 4 root root 4096 Feb 10 01:52 appport
-rw-r--r-- 1 root root 769 Jan 19 2020 appstream.conf
drwxr-xr-x 7 root root 4096 Mar 17 11:20 apt
drwxr-xr-x 3 root root 4096 Feb 10 01:51 avahi
-rw-r--r-- 1 root root 2319 Feb 25 2020 bash.bashrc
-rw-r--r-- 1 root root 45 Jan 26 2020 bash_completion
drwxr-xr-x 2 root root 4096 Feb 10 01:52 bash_completion.d
-rw-r--r-- 1 root root 367 Apr 15 2020 bindresvport.blacklist
drwxr-xr-x 2 root root 4096 Apr 22 2020 binfmt.d
drwxr-xr-x 2 root root 4096 Feb 10 01:51 bluetooth
-rw-r--r-- 1 root root 33 Feb 10 01:51 brlapi.key
drwxr-xr-x 7 root root 4096 Feb 10 01:50 brltty
-rw-r--r-- 1 root root 26916 Mar 4 2020 brltty.conf
drwxr-xr-x 3 root root 4096 Feb 10 01:47 ca-certificates
-rw-r--r-- 1 root root 6569 Feb 10 01:48 ca-certificates.conf
-rw-r--r-- 1 root root 5713 Feb 10 01:47 ca-certificates.conf.dpkg-old
drwxr-xr-x 2 root root 4096 Feb 10 01:51 calendar
drwxr-xr-x 2 root root 4096 Feb 10 01:51 chatscripts
drwxr-xr-x 2 root root 4096 Mar 17 11:08 console-setup
drwxr-xr-x 2 root root 4096 Feb 10 01:51 cracklib
drwxr-xr-x 2 root root 4096 Mar 17 11:10 cron.d
drwxr-xr-x 2 root root 4096 Feb 10 01:52 cron.daily
drwxr-xr-x 2 root root 4096 Feb 10 01:47 cron.hourly
drwxr-xr-x 2 root root 4096 Feb 10 01:51 cron.monthly
-rw-r--r-- 1 root root 1042 Feb 14 2020 crontab
drwxr-xr-x 2 root root 4096 Feb 10 01:52 cron.weekly
drwxr-xr-x 5 root root 4096 Mar 23 08:24 cups
```

9. Buatlah direktori prak1 pada direktori aktif, kemudian copy-kan file /etc/group ke file tes1, tes2 dan tes3 pada direktori ini.



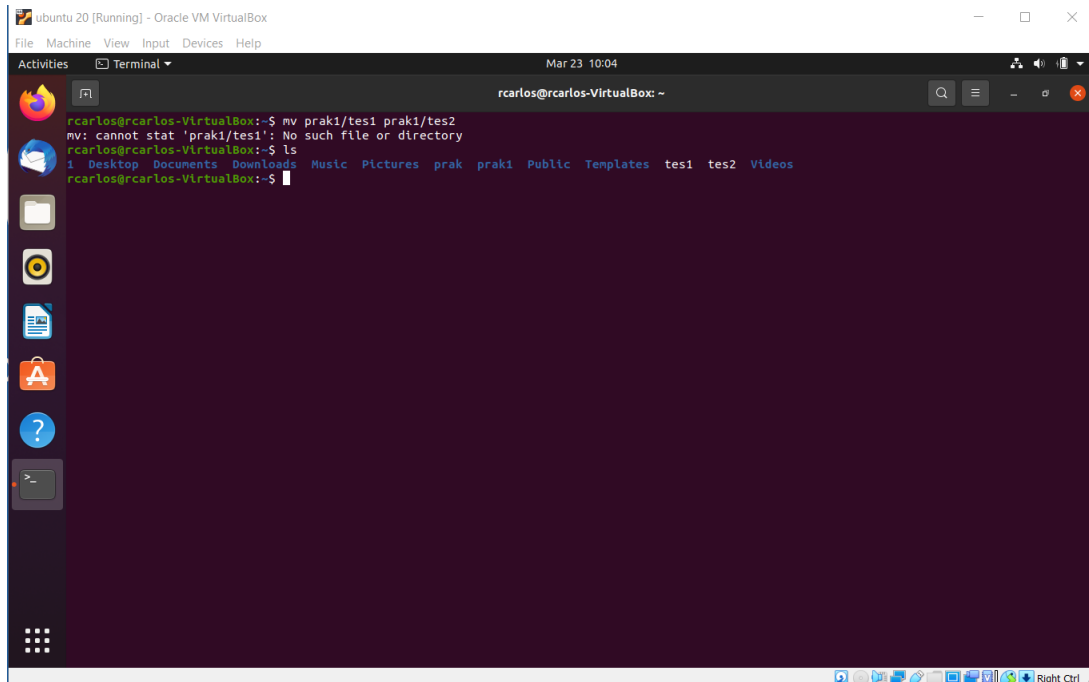
```
rcarlos@rcarlos-VirtualBox:~$ mkdir prak1
rcarlos@rcarlos-VirtualBox:~$ cp /etc/group prak1/tes1
rcarlos@rcarlos-VirtualBox:~$ cp /etc/group prak1/tes2
rcarlos@rcarlos-VirtualBox:~$ cp /etc/group prak1/tes3
rcarlos@rcarlos-VirtualBox:~$ ls prak1/
tes1 tes2 tes3
rcarlos@rcarlos-VirtualBox:~$
```

10. Tampilkan isi file tes1 per satu layar penuh.



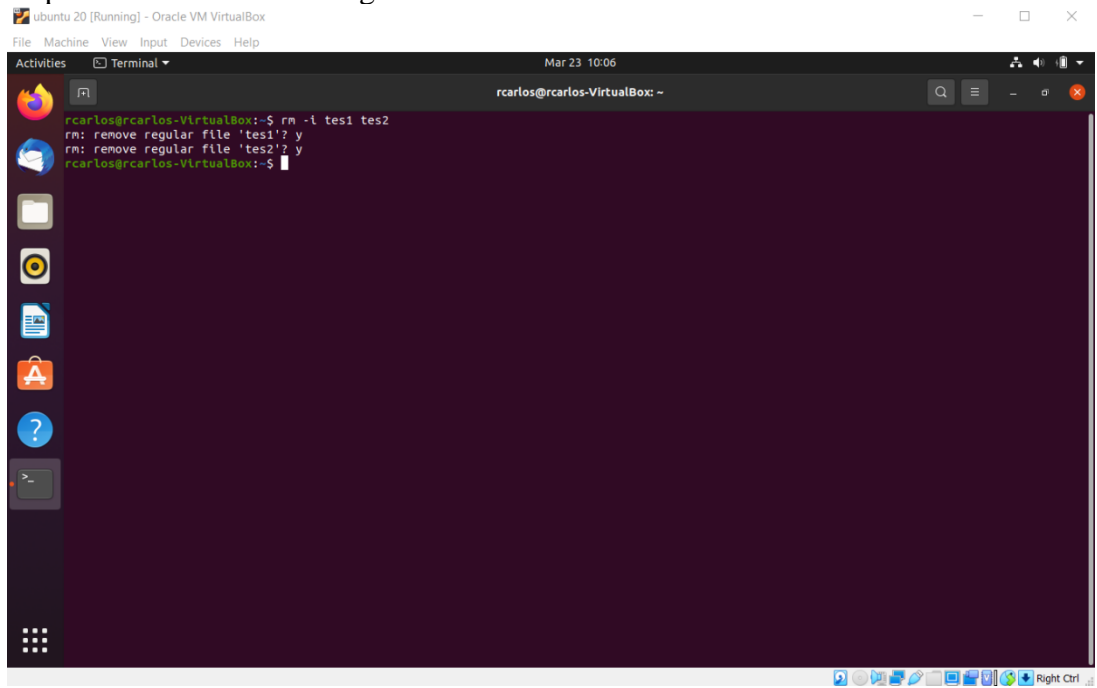
```
ubuntu 20 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 23 09:49
rcarlos@rcarlos-VirtualBox: ~
rcarlos@rcarlos-VirtualBox:~$ more praki/tes1
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,rcarlos
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:rcarlos
floppy:x:25:
tape:x:26:
sudo:x:27:rcarlos
audio:x:29:pulse
dtp:x:30:rcarlos
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:
sas1:x:45:
plugdev:x:46:rcarlos
staff:x:50:
games:x:60:
```

11. Pindahkan file tes1 dan tes2 ke home direktori



```
ubuntu 20 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 23 10:04
rcarlos@rcarlos-VirtualBox: ~
rcarlos@rcarlos-VirtualBox:~$ mv praki/tes1 praki/tes2
mv: cannot stat 'praki/tes1': No such file or directory
rcarlos@rcarlos-VirtualBox:~$ ls
1 Desktop Documents Downloads Music Pictures prak praki Public Templates tes1 tes2 Videos
rcarlos@rcarlos-VirtualBox:~$
```

12. Hapus file tes1 dan tes dengan konfirmasi.



The screenshot shows a terminal window titled "Terminal" within an Oracle VM VirtualBox environment. The terminal displays the following command and output:

```
rcarlos@rcarlos-VirtualBox:~$ rm -i tes1 tes2
rm: remove regular file 'tes1'? y
rm: remove regular file 'tes2'? y
rcarlos@rcarlos-VirtualBox:~$
```

The terminal window is part of a desktop environment with a sidebar on the left containing icons for various applications. The top of the window shows the menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". The bottom of the window shows a taskbar with various system icons and a "Right Ctrl" button.