

**SISTEM OPERASI**

**JOBSHEET 2**



**Oleh:**

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**PROGRAM STUDI SISTEM INFORMASI BISNIS**

**JURUSAN TEKNOLOGI INFORMASI**

**POLITEKNIK NEGERI MALANG 2023/2024**

## Latihan 1 :

1. Ubahlah informasi finger pada komputer anda !

Jawab : untuk mengubah informasi finger pada komputer dapat menggunakan perintah “chfn”

```
jaden@jaden-virtual-machine: ~
Processing triggers for man-db (2.10.2-1) ...
jaden@jaden-virtual-machine:~$ finger
Login      Name      Tty      Idle Login Time  Office      Office Phone
jaden      Jaden     tty2     9   Mar 1 09:04 (tty2)
jaden@jaden-virtual-machine:~$ finger jaden
Login: jaden                      Name: Jaden
Directory: /home/jaden           Shell: /bin/bash
Office: lab penrograman 2, x2301  Home Phone: 594-7280
On since Fri Mar 1 09:04 (WIB) on tty2 from tty2
      9 minutes 37 seconds idle
No mail.
No Plan.
jaden@jaden-virtual-machine:~$ chfn
Password:
Changing the user information for jaden
Enter the new value, or press ENTER for the default
      Full Name: Jaden
      Room Number [lab penrograman 2]: Sistem Informasi Bisnis 1A
      Work Phone [2301]: 0858
      Home Phone [5947280]: 0858
jaden@jaden-virtual-machine:~$ finger jaden
Login: jaden                      Name: Jaden
Directory: /home/jaden           Shell: /bin/bash
Office: Sistem Informasi Bisnis 1A, x0858  Home Phone: x0858
On since Fri Mar 1 09:04 (WIB) on tty2 from tty2
      11 minutes 12 seconds idle
No mail.
No Plan.
jaden@jaden-virtual-machine:~$
```

2. lihatlah user-user yang sedang aktif pada komputer anda !

Jawab : untuk melihat user yang sedang aktif dapat menggunakan perintah “who” dan “w”.

```
jaden@jaden-virtual-machine: ~
jaden@jaden-virtual-machine:~$ who
jaden  tty2          2024-03-01 09:04 (tty2)
jaden@jaden-virtual-machine:~$ w
09:18:01 up 13 min, 1 user, load average: 0.00, 0.06, 0.08
USER    TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
jaden   tty2     tty2          09:04    13:44  0.12s  0.11s /usr/libexec/gn
jaden@jaden-virtual-machine:~$
```

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

Jawab : Perintah yang digunakan untuk melihat kalender adalah “cal -y”

```
jaden@jaden-virtual-machine:~$ cal -y
2024
January          February          Maret
Ml Se Sa Ra Ka Ju Sa Ml Se Sa Ra Ka Ju Sa Ml Se Sa Ra Ka Ju Sa
1 2 3 4 5 6      1 2 3      1 2 3
7 8 9 10 11 12 13 4 5 6 7 8 9 10 3 4 5 6 7 8 9
14 15 16 17 18 19 20 11 12 13 14 15 16 17 10 11 12 13 14 15 16
21 22 23 24 25 26 27 18 19 20 21 22 23 24 17 18 19 20 21 22 23
28 29 30 31      25 26 27 28 29      24 25 26 27 28 29 30
31

April            Mei            Juni
Ml Se Sa Ra Ka Ju Sa Ml Se Sa Ra Ka Ju Sa Ml Se Sa Ra Ka Ju Sa
1 2 3 4 5 6      1 2 3 4      1 2 3 4 5 6 7 8
7 8 9 10 11 12 13 5 6 7 8 9 10 11 2 3 4 5 6 7 8
14 15 16 17 18 19 20 12 13 14 15 16 17 18 9 10 11 12 13 14 15
21 22 23 24 25 26 27 19 20 21 22 23 24 25 16 17 18 19 20 21 22
28 29 30      26 27 28 29 30 31      23 24 25 26 27 28 29
30

Juli            Agustus            September
Ml Se Sa Ra Ka Ju Sa Ml Se Sa Ra Ka Ju Sa Ml Se Sa Ra Ka Ju Sa
1 2 3 4 5 6      1 2 3      1 2 3 4 5 6 7
7 8 9 10 11 12 13 4 5 6 7 8 9 10 8 9 10 11 12 13 14
14 15 16 17 18 19 20 11 12 13 14 15 16 17 15 16 17 18 19 20 21
21 22 23 24 25 26 27 18 19 20 21 22 23 24 22 23 24 25 26 27 28
28 29 30 31      25 26 27 28 29 30 31      29 30
```

4. Bagaimana anda dapat melihat manual dari perintah cal ?

Jawab : perintah yang dapat melihat manual dari perintah cal adalah “man cal”

```
CAL(1)                                BSD General Commands Manual                                CAL(1)

NAME
    cal, ncal - displays a calendar and the date of Easter

SYNOPSIS
    cal [-3hjt] [-A number] [-B number] [[month] year]
    cal [-3hj] [-A number] [-B number] -m month [year]
    ncal [-3bhjJpwySM] [-A number] [-B number] [-W number] [-s country_code] [[month]
    year]
    ncal [-Jeo] [-A number] [-B number] [year]
    ncal [-CN] [-H yyyy-mm-dd] [-d yyyy-mm]

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).

    -f      Display Julian days (days one-based, numbered from January 1).
```

5. Bagaimana anda dapat melihat manual ls dengan kata kunci sort ?

- Pertama masukkan perintah “man ls” untuk membuka manual ls
- Kemudian masukkan perintah “/sort” untuk mencari kata kunci sort

```
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 alphabeti-
    cally 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

    -b, --escape
        print C-style escapes for nongraphic characters

    --block-size=SIZE
        with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format
        below

    -B, --ignore-backups
        do not list implied entries ending with ~

    -c      with -lt: sort by, and show, ctime (time of last modification of file status informa-
    tion); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first

/sort
```

```

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

  -b, --escape
      print C-style escapes for nongraphic characters

  --block-size=SIZE
      with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below

  -B, --ignore-backups
      do not list implied entries ending with ~

  -c
      with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first

  -C
      list entries by columns

  --color[=WHEN]
      colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more
Manual page ls(1) line 6/230 16% (press h for help or q to quit)

```

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

Jawaban :

- `ls -a` merupakan perintah untuk menampilkan semua file, termasuk semua file yang tersembunyi (file yang diawali dengan titik).

```

jaden@jaden-virtual-machine: $ ls -a
.bash_logout  .config      Downloads    local        .profile     .ssh         Videos
.bashrc       desktop      .gnupg      Music        Public       .sudo_as_admin_successful
.bash_history .cache       Documents    .lessht      Pictures     snap         Templates

```

- `ls -l` merupakan perintah untuk menampilkan daftar file dalam format daftar panjang. (menunjukkan izin akses untuk file)

```

jaden@jaden-virtual-machine: $ ls -l
total 36
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Desktop
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Documents
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Downloads
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Music
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Pictures
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Public
drwx----- 4 jaden jaden 4096 Feb 21 18:45 snap
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Templates
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 Videos

```

- `ls -al` merupakan gabungan dari perintah `ls -a` dan `ls -l` yang fungsinya sama yaitu menampilkan daftar file yang ada.



```
jaden@jaden-virtual-machine:~$ ls -al
total 64
drwxr-xr-x 16 jaden jaden 4096 Mar 21 09:33
drwxr-xr-x 3 root root 4096 Feb 21 18:37
-rw-r--r-- 1 jaden jaden 147 Mar 21 07:15 .bash_history
-rw-r--r-- 1 jaden jaden 228 Feb 21 18:37 .bash_logout
-rw-r--r-- 1 jaden jaden 3771 Feb 21 18:37 .bashrc
drwx----- 11 jaden jaden 4096 Mar 21 07:16 .cache
drwx----- 12 jaden jaden 4096 Feb 29 18:01 .config
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .desktop
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .documents
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .downloads
drwx----- 2 jaden jaden 4096 Feb 29 17:49 .gimp
-rw-r--r-- 1 jaden jaden 55 Mar 21 09:33 .lesshist
drwx----- 3 jaden jaden 4096 Feb 21 18:43 .local
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .mako
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .pictures
-rw-r--r-- 1 jaden jaden 887 Feb 21 18:37 .profile
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .rustup
drwx----- 4 jaden jaden 4096 Feb 21 18:45 .snap
drwx----- 2 jaden jaden 4096 Feb 21 18:49 .ssh
-rw-r--r-- 1 jaden jaden 0 Feb 28 10:24 .sudo_as_admin
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .templates
drwxr-xr-x 2 jaden jaden 4096 Feb 21 18:43 .views
```

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

Jawab : Untuk menampilkan semua file pada direktori/ etc bisa menggunakan perintah “ls -a /etc/”

```
jaden@jaden-virtual-machine:~$ ls -a /etc/
.
..
acpi
adduser.conf
alsa
alternatives
anacrontab
apg.conf
apm
apparmor
apparmor.d
appport
appstream.conf
apt
avahi
bash.bashrc
bash_completion
bash_completion.d
bindresvport.blacklist
binfmt.d
bluetooth
brlapi.key
brltty
brltty.conf
ca-certificates
ca-certificates.conf
ca-certificates.conf.dpkg-old
chatscripts
console-setup
cracklib
cron.d
cron.daily
cron.hourly
cron.monthly
crontab
fuse.conf
fwupd
gai.conf
gdb
gdm3
geoclue
ghostscript
glvnd
gnome
groff
group
group-
grub.d
gshadow
gshadow-
gss
gtk-2.0
gtk-3.0
hdparm.conf
host.conf
hostid
hostname
hosts
hosts.allow
hosts.deny
hp
ifplugd
init
init.d
initramfs-tools
inputrc
insserv.conf.d
ipp-usb
iproute2
issue
lsb-release
machine-id
magic
magic.mime
mailcap
mailcap.order
manpath.config
mime.types
mke2fs.conf
ModemManager
modprobe.d
modules
modules-load.d
mtab
nanorc
netconfig
netplan
network
networkd-dispatcher
NetworkManager
networks
newt
nftables.conf
nsswitch.conf
openvpn
opt
os-release
PackageKit
pam.conf
pam.d
papersize
passwd
passwd-
pcmcia
perl
rpc
rsyslog.conf
rsyslog.d
rygel.conf
sane.d
security
selinux
sensors3.conf
sensors.d
services
sgml
shadow
shadow-
shells
skel
snmp
speech-dispatcher
ssh
ssl
subgid
subgid-
subuid
subuid-
sudo.conf
sudoers
sudoers.d
sudo_logsrvd.conf
sysctl.conf
sysctl.d
systemd
terminfo
thermald
thunderbird
timezone
tmpfiles.d
```

8. Tampilkan semua file secara lengkap pada direktori /etc

Jawab : untuk menampilkan file secara lengkap dengan menggunakan perintah “ls -al /etc/”

```
jaden@jaden-virtual-machine:~$ ls -al /etc/
total 1148
drwxr-xr-x 129 root root 12288 Mar  1 10:13 .
drwxr-xr-x 20 root root  4096 Feb 21 18:30 ..
drwxr-xr-x  3 root root  4096 Agu  8 2023 acpi
-rw-r--r--  1 root root 3028 Agu  8 2023 adduser.conf
drwxr-xr-x  3 root root  4096 Agu  8 2023 alsa
drwxr-xr-x  2 root root  4096 Feb 21 18:39 alternatives
-rw-r--r--  1 root root  335 Mar 23 2022 anacrontab
-rw-r--r--  1 root root  433 Mar 23 2022 apg.conf
drwxr-xr-x  5 root root  4096 Agu  8 2023 apm
drwxr-xr-x  3 root root  4096 Agu  8 2023 apparmor
drwxr-xr-x  7 root root  4096 Mar  1 10:04 apparmor.d
drwxr-xr-x  4 root root  4096 Agu  8 2023 appport
-rw-r--r--  1 root root  769 Feb 22 2022 appstream.conf
drwxr-xr-x  8 root root  4096 Feb 21 18:42 apt
drwxr-xr-x  3 root root  4096 Mar  1 10:11 avahi
-rw-r--r--  1 root root 2319 Jan  6 2022 bash.bashrc
-rw-r--r--  1 root root   45 Nov 11 2021 bash_completion
drwxr-xr-x  2 root root  4096 Agu  8 2023 bash_completion.d
-rw-r--r--  1 root root  367 Dec 16 2020 bindresvport.blacklist
drwxr-xr-x  2 root root  4096 Apr  8 2022 binfmt.d
drwxr-xr-x  2 root root  4096 Mar  1 10:11 bluetooth
-rw-r--r--  1 root root   33 Agu  8 2023 brlapi.key
drwxr-xr-x  7 root root  4096 Agu  8 2023 brltty
-rw-r--r--  1 root root 29219 Jun 28 2022 brltty.conf
drwxr-xr-x  3 root root  4096 Agu  8 2023 ca-certificates
-rw-r--r--  1 root root 6253 Agu  8 2023 ca-certificates.conf
-rw-r--r--  1 root root 5529 Agu  8 2023 ca-certificates.conf.dpkg-old
drwxr-xr-x  2 root dip  4096 Agu  8 2023 chatscripts
drwxr-xr-x  2 root root  4096 Feb 21 18:37 console-setup
drwxr-xr-x  2 root root  4096 Agu  8 2023 cracklib
drwxr-xr-x  2 root root  4096 Feb 21 18:42 cron.d
drwxr-xr-x  2 root root  4096 Agu  8 2023 cron.daily
drwxr-xr-x  2 root root  4096 Agu  8 2023 cron.hourly
drwxr-xr-x  2 root root  4096 Agu  8 2023 cron.monthly
-rw-r--r--  1 root root 1136 Mar 23 2022 crontab
drwxr-xr-x  2 root root  4096 Agu  8 2023 cron.weekly
drwxr-xr-x  5 root lp   4096 Mar  1 14:51 cups
```

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

Jawab :

```
jaden@jaden-virtual-machine:~$ mkdir prak1

jaden@jaden-virtual-machine:~$ cd prak1
jaden@jaden-virtual-machine:~/prak1$ cp /etc/group tes1
jaden@jaden-virtual-machine:~/prak1$ cp -i tes1 tes2
jaden@jaden-virtual-machine:~/prak1$ cp -i tes1 tes3
jaden@jaden-virtual-machine:~/prak1$ ls -l
total 12
-rw-r--r-- 1 jaden jaden 1082 Mar  1 10:28 tes1
-rw-r--r-- 1 jaden jaden 1082 Mar  1 10:29 tes2
-rw-r--r-- 1 jaden jaden 1082 Mar  1 10:29 tes3
jaden@jaden-virtual-machine:~/prak1$
```

10. Tampilkan isi file tes1 per satu layar penuh

```
jaden@jaden-virtual-machine:~/prak1$ more tes1
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,jaden
tty:x:5:
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:jaden
floppy:x:25:
tape:x:26:
sudo:x:27:jaden
audio:x:29:pulse
dip:x:30:jaden
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:
sasl:x:45:
plugdev:x:46:jaden
```

11. Pindahkan file tes1 dan tes2 ke home direktori !

```
jaden@jaden-virtual-machine:~$ cd prak1
jaden@jaden-virtual-machine:~/prak1$ mv tes1 tes2 ~/
jaden@jaden-virtual-machine:~/prak1$ cd
jaden@jaden-virtual-machine:~$ ls
backup  Documents  Music      prak1  snap      tes1  Videos
Desktop Downloads  Pictures  Public  Templates tes2
```

12. Hapus file tes1 dan tes2 dengan konfirmasi !

```
jaden@jaden-virtual-machine:~$ rm -i tes1 tes2
rm: remove regular file 'tes1'? yes
rm: remove regular file 'tes2'? yes
```



## Laporan Resmi :

1. Berikut merupakan hasil percobaan pada perintah-perintah dasar linux :

Perintah	Deskripsi	Format
id	Menampilkan informasi identitas user.	<pre>jaden@jaden-virtual-machine:~\$ id uid=1000(jaden) gid=1000(jaden) groups=1000(jaden),4(adm),24(cdrom),27(sudo),38(dip),46(plugdev),122(lpadmin),135(lxd),136(sambashare) jaden@jaden-virtual-machine:~\$</pre>
hostname	Menampilkan nama host komputer	<pre>jaden@jaden-virtual-machine:~\$ hostname jaden-virtual-machine</pre>
uname	Menampilkan informasi sistem	<pre>jaden@jaden-virtual-machine:~\$ uname Linux</pre>
w	Menampilkan daftar user yang sedang login, termasuk waktu login dan proses yang dijalankan	<pre>jaden@jaden-virtual-machine:~\$ w  15:34:01 up 43 min,  1 user,  load average: 0,00, 0,00, 0,02 USER   TTY      FROM             LOGIN@   IDLE   XCPU  PCPU WHAT jaden  tty2     tty2             14:51   42:55   0.13s  0.11s /usr/libexec/gnome-session-binary --session=ubuntu</pre>
who	Menampilkan daftar user yang login, sama dengan w namun lebih ringkas	<pre>jaden@jaden-virtual-machine:~\$ who jaden    tty2                2024-03-01 14:51 (tty2)</pre>
whoami	Menampilkan nama user yang sedang aktif	<pre>jaden@jaden-virtual-machine:~\$ whoami jaden</pre>
chfn	Mengubah informasi finger user seperti nama lengkap, nomor telepon	<pre>jaden@jaden-virtual-machine:~\$ chfn Password: Changing the user information for jaden Enter the new value, or press ENTER for the default   Full Name: Jaden   Room Number [Sistem Informasi Bisnis 1A]: SIB 1A   Work Phone [0858]: 08581039   Home Phone [0858]: 08581039 jaden@jaden-virtual-machine:~\$</pre>



	dan telepon kantor																																																		
Finger	Menampilkan informasi finger user yang telah diubah melalui chfn	<pre>jaden@jaden-virtual-machine:~\$ finger</pre> <table><thead><tr><th>Login</th><th>Name</th><th>Tty</th><th>Idle</th><th>Login Time</th><th>Office</th><th>Office Phone</th></tr></thead><tbody><tr><td>jaden</td><td>Jaden</td><td>tty2</td><td>51</td><td>Mar 1 14:51</td><td>(tty2)</td><td></td></tr></tbody></table>	Login	Name	Tty	Idle	Login Time	Office	Office Phone	jaden	Jaden	tty2	51	Mar 1 14:51	(tty2)																																				
Login	Name	Tty	Idle	Login Time	Office	Office Phone																																													
jaden	Jaden	tty2	51	Mar 1 14:51	(tty2)																																														
date	Menampilkan tanggal dan waktu saat ini	<pre>jaden@jaden-virtual-machine:~\$ date</pre> <p>Jum 01 Mar 2024 03:45:23 WIB</p>																																																	
cal	Menampilkan kalender bulan ini atau bulan yang ditentukan	<pre>jaden@jaden-virtual-machine:~\$ cal</pre> <p>Maret 2024</p> <table><thead><tr><th>Mi</th><th>Se</th><th>Se</th><th>Ra</th><th>Ka</th><th>Ju</th><th>Sa</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td></tr><tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr><tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr><tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr><tr><td>31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> <pre>jaden@jaden-virtual-machine:~\$</pre>	Mi	Se	Se	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						
Mi	Se	Se	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																																																			
man	Menampilkan halaman manual untuk suatu perintah	<pre>man ls</pre> <p>NAME ls - list directory contents</p> <p>SYNOPSIS ls [OPTION]... [FILE]...</p> <p>DESCRIPTION list information about the files (the current directory by default). Sort entries alphabetically if none of -cftwsdu is specified. Mandatory arguments to long options are mandatory for short options too.</p> <p>-a, --all do not ignore entries starting with .</p> <p>-A, --almost-all do not list implied . and ..</p> <p>--author with -l, print the author of each file</p> <p>-b, --escape print C-style escapes for nongraphic characters</p> <p>--block-size=SIZE with -l, scale sizes by SIZE when printing them; e.g., "--block-size=M"; use SIZE format below</p> <p>-B, --ignore-backups do not list implied entries ending with ~</p> <p>-C with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first</p>																																																	
clear	Membersihkan layar terminal	<pre>jaden@jaden-virtual-machine:~\$</pre>																																																	

apropos	Mencari nama perintah berdasarkan deskripsinya.	<pre>jaden@jaden-virtual-machine:~\$ apropos date aa-features-abl (1) - Extract, validate and manipulate AppArmor feature abls apport-bug (1) - file a bug report using Apport, or update an existing report apport-collect (1) - file a bug report using Apport, or update an existing report cal (1) - displays a calendar and the date of Easter catman (8) - create or update the pre-formatted manual pages chpasswd (8) - update group passwords in batch mode chpasswd (8) - update passwords in batch mode date (1) - print or set the system date and time Date::Format (3pm) - Date formatting subroutines Date::Language (3pm) - Language specific date formatting and parsing Date::Language::Bulgarian (3pm) - localization for Date::Format Date::Language::Hungarian (3pm) - Magyar format for Date::Format Date::Parse (3pm) - Parse date strings into time values dbus-update-activation-environment (1) - update environment used for D-Bus session services desktop-file-validate (1) - Validate desktop entry files fc-validate (1) - validate font files fwupdate (1) - debugging utility for UEFI firmware updates fwupdmgpr (1) - firmware update manager client utility fwupdtool (1) - standalone firmware update utility ginstall-info (1) - update info/dir entries Glib::ParamSpec (3pm) - encapsulates metadata needed to specify parameters gtk-update-icon-cache (1) - Icon theme caching utility gtk4-update-icon-cache (1) - Icon theme caching utility hp-timedate (1) - Time/Date Utility HTTP::Date (3pm) - HTTP::Date - date conversion routines install-info (1) - update info/dir entries IO::AtomicFile (3pm) - write a file which is updated atonically iptables-apply (8) - a safer way to update iptables remotely iptables-apply (8) - a safer way to update iptables remotely linux-update-symlinks (1) - maintain symlinks to default kernel and initramfs Mail::Field::Date (3pm) - a date header field mandb (8) - create or update the manual page index caches ncal (1) - displays a calendar and the date of Easter newusers (8) - update and create new users in batch nsupdate (1) - dynamic DNS update utility ntfsdecrypt (8) - decrypt or update NTFS files encrypted according to EFS ntfsrecover (8) - Recover updates committed by Windows on an NTFS volume org.freedesktop.timedat1 (5) - The D-Bus interface of systemd-timedated pam-auth-update (8) - manage PAM configuration using packaged profiles</pre>
whatis	Mencari perintah yang tepat sama dengan kunci yang dicari	<pre>jaden@jaden-virtual-machine:~\$ whatis date date (1) - print or set the system date and time</pre>
ls	Menampilkan daftar file dan direktori di direktori saat ini	<pre>jaden@jaden-virtual-machine:~\$ ls Backup Desktop Documents Downloads Music Pictures prakl Public snap Templates Videos jaden@jaden-virtual-machine:~\$</pre>
file	Melihat tipe file	<pre>jaden@jaden-virtual-machine:~\$ file Usage: file [-bCdEhikLlNnprsSvzZ0] [--apple] [--extension] [--mime-encoding]         [--mime-type] [-e &lt;testname&gt;] [-F &lt;separator&gt;] [-f &lt;namefile&gt;]         [-n &lt;magicfiles&gt;] [-P &lt;parameter=value&gt;] [--exclude-quiet]         &lt;file&gt; ... file -C [-n &lt;magicfiles&gt;] file [--help]</pre>

cat	Menampilkan isi file	<pre>jaden@jaden-virtual-machine:~/prak1\$ cat tes3 root:x:0: daemon:x:1: bin:x:2: sys:x:3: adm:x:4:syslog,jaden tty:x:5: 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:jaden floppy:x:25: tape:x:26:</pre>
more	Menampilkan isi file per halaman	<pre>root:x:0: daemon:x:1: bin:x:2: sys:x:3: adm:x:4:syslog,jaden tty:x:5: 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:jaden floppy:x:25: tape:x:26: sudo:x:27:jaden audio:x:29:pulse dip:x:30:jaden 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: sasl:x:45: plugdev:x:46:jaden staff:x:50: games:x:60: users:x:100: nogroup:x:65534: --More-- (44%)</pre>

cp	Mengkopi file suatu file ke direktori lainnya	<pre> jaden@jaden-virtual-machine:~\$ cd prak1 jaden@jaden-virtual-machine:~/prak1\$ cp /etc/group tes1 jaden@jaden-virtual-machine:~/prak1\$ cp -i tes1 tes2 jaden@jaden-virtual-machine:~/prak1\$ cp -i tes1 tes3 jaden@jaden-virtual-machine:~/prak1\$ ls -l total 12 -rw-r--r-- 1 jaden jaden 1082 Mar  1 10:28 tes1 -rw-r--r-- 1 jaden jaden 1082 Mar  1 10:29 tes2 -rw-r--r-- 1 jaden jaden 1082 Mar  1 10:29 tes3 jaden@jaden-virtual-machine:~/prak1\$ </pre>
mv	Memindahkan suatu file atau mengubah nama suatu file	<pre> jaden@jaden-virtual-machine:~\$ cd prak1 jaden@jaden-virtual-machine:~/prak1\$ mv tes1 tes2 ~/ jaden@jaden-virtual-machine:~/prak1\$ cd jaden@jaden-virtual-machine:~\$ ls backup  Desktop  Documents  Music  prak1  snap  tes1  Videos Desktop Downloads Pictures  Public  Templates  tes2 jaden@jaden-virtual-machine:~\$ </pre>
rm	Menghapus suatu file	<pre> jaden@jaden-virtual-machine:~/backup\$ ls f1  f2 jaden@jaden-virtual-machine:~/backup\$ rm f1 jaden@jaden-virtual-machine:~/backup\$ ls f2 jaden@jaden-virtual-machine:~/backup\$ </pre>
rm -r	Menghapus direktori berserta isinya	<pre> jaden@jaden-virtual-machine:~\$ ls backup  Desktop  Documents  Downloads  Music  Pictures  prak1  Public  snap  Templates  Videos jaden@jaden-virtual-machine:~\$ rm -r backup jaden@jaden-virtual-machine:~\$ ls Desktop  Downloads  Music  Pictures  prak1  Public  snap  Templates  Videos jaden@jaden-virtual-machine:~\$ </pre>
grep	Menemukan baris-baris dalam file yang mengandung teks yang anda temukan	<pre> jaden@jaden-virtual-machine:~\$ grep root /etc/passwd root:x:0:0:root:/root:/bin/bash nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin </pre>

## 2. Berdasarkan analisa pada percobaan diatas :

### a. Manipulasi Informasi Finger:

- Finger : digunakan untuk memeriksa informasi finger saat ini.
- nano ~/.finger : digunakan untuk edit file finger dengan menggunakan editor nano.
- man finger: Buka panduan untuk perintah finger.

### b. Pemantauan Pengguna yang Aktif:

- w: menampilkan daftar pengguna yang sedang aktif.
- who: Periksa informasi lebih rinci tentang pengguna yang sedang aktif.



- c. Tampilan Kalender Setahun Penuh:
  - `cal -y`: Menampilkan kalender setahun penuh.
  - `cal 2024`: Menampilkan kalender untuk tahun yang sedang berlangsung.
- d. Penjelajahan Manual Suatu Perintah:
  - `man <nama_perintah>`: Menampilkan panduan suatu perintah.
  - `man ls`: Menampilkan panduan perintah `ls`.
- e. Penayangan Semua File, Termasuk yang Tersembunyi:
  - `ls -a`: Menampilkan semua file, termasuk yang tersembunyi.
  - `ls -al`: Menampilkan daftar semua file dalam format detail.
- f. Pembuatan Direktori Baru:
  - `mkdir <nama_direktori>`: Buat direktori baru.
  - `mkdir prak1`: Contohnya, buat direktori baru dengan nama "prak1".
- g. Penyalinan File dari Lokasi ke Lokasi Lain:
  - `cp <nama_file> <lokasi_tujuan>`: Salin file ke lokasi lain.
  - `cp /etc/group prak1/tes1`: Contoh, salin file `/etc/group` ke file `tes1` di direktori `prak1`.
- h. Peninjauan Isi File per Layar Penuh:
  - `less <nama_file>`: Lihat isi file satu layar penuh.
  - `less prak1/tes1`: Misalnya, lihat isi file `tes1` di direktori `prak1`.
- i. Pemindahan File ke Direktori Lain:
  - `mv <nama_file> <lokasi_tujuan>`: Pindahkan file ke lokasi lain.
  - `mv prak1/tes1 ~/tes1`: Contoh, pindahkan file `tes1` dari direktori `prak1` ke direktori `home`.
- j. Penghapusan File dengan Konfirmasi:
  - `rm -i <nama_file>`: Hapus file dengan meminta konfirmasi.
  - `rm -i tes1`: Misalnya, hapus file `tes1` dengan konfirmasi.

### 3. Kesimpulan

Dari percobaan di atas, perintah pada sistem operasi linux terdapat perintah-perintah dasar yang dapat digunakan atau dijalankan di sistem operasi Linux. Terdapat berbagai macam perintah dengan berbagai opsi dan argumen yang dapat digunakan untuk menyesuaikan fungsionalitasnya sesuai kebutuhan pengguna. Selain itu, juga terdapat perintah "man" atau manual yang dapat memberikan kita panduan untuk bagaimana cara mengetahui berbagai perintah yang dapat dijalankan pada sistem operasi linux sehingga dapat mudah dipelajari oleh semua pengguna.