LAPORAN PRAKTIKUM
Sistem Operasi

PRAKTIKUM 3
Operasi File dan Struktur Directory

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Tugas Pendahuluan

1. Apa yang dimaksud perintah directory pwd. Cd, mkdir, rmdir
2. Apa yang dimaksud perintah manipulasi file cp, mv dan rm (sertakan format yang digunakan)
3. Jelaskan perbedaan Symbolic link menggunakan hard link (direct) dan soft link (indirect)
4. Tuliskan maksud perintah file, find, wich, locate dan grep

Jawab

1. Pwd digunakan untuk melihat direktori yang sedang aktif.
   Cd digunakan untuk berpindah dari satu direktori ke direktori yanglain.
   Mkdir digunakan untuk membuat satu dan sub direktori
   Rmdir digunakan untuk menghapus direktori apabila direktori tersebut kosong.
2. Cp digunakan untuk mengkopi file atau seluruh direktori.

   Formatnya:

   > $ cp contoh contoh1

   > $ ls -l

   > Mv digunakan untuk memindah file.

   > Formatnya:

   > $ mv   contoh contoh2

   > $ ls -l

   > Rm digunakan untuk menghapus file.

   > Formatnya:

   > $ rm   contoh2

   > $ ls -l

3. Pada bentuk soft link, symbolic link dapat dilakukan pada file yang tidak ada, sedangkan pada hard link tidak dimungkinkan. Perbedaan lainnya symbolic link dapat dibentuk melalui media disk atau partisi yang berbeda dengan soft link, tetapi pada hard link terbatas pada partisi disk yang sama.
4. File digunakan untuk melihat dan mencari data pada directory.

   Find digunakan untuk melihat file pada pohon directory.

   Which digunakan untuk mengetahui letak system utility.

Percobaan 1

1.
```
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ echo $HOME
/home/farid
```

2.
```
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ cd .
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ cd ..
farid@farid-VirtualBox:/home$ pwd
/home
```

3.
```
farid@farid-VirtualBox:~$ mkdir A B C A/D A/E B/F A/D/A
farid@farid-VirtualBox:~$ ls -l
total 104
drwxr-xr-x 4 farid farid 4096 Feb 27 19:47 A
drwxr-xr-x 3 farid farid 4096 Feb 27 19:47 B
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 C
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Music
drwxr-xr-x 2 farid farid 4096 Feb 20 20:35 mydir
-rw-r--r-- 1 farid farid   56 Feb 20 20:55 myerror.txt
-rw-r--r-- 1 farid farid   52 Feb 20 20:52 myfile.txt
-rw-r--r-- 1 farid farid   20 Feb 20 21:21 out
-rw-r--r-- 1 farid farid    0 Feb 20 21:22 output
-rw-r--r-- 1 farid farid    0 Feb 20 20:57 out.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 21:25 Pictures
```

```
farid@farid-VirtualBox:~$ ls -l A
total 8
drwxr-xr-x 3 farid farid 4096 Feb 27 19:47 D
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 E
farid@farid-VirtualBox:~$ ls -l A/D
total 4
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 A
```

4.

```
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 A
farid@farid-VirtualBox:~$ rmdir B
rmdir: failed to remove 'B': Directory not empty
farid@farid-VirtualBox:~$ ls -l B
total 4
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 F
farid@farid-VirtualBox:~$ rmdir B/F B
farid@farid-VirtualBox:~$ ls -l B
ls: cannot access 'B': No such file or directory
```

```
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ ls -l
total 100
drwxr-xr-x 4 farid farid 4096 Feb 27 19:47 A
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 C
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Music
drwxr-xr-x 2 farid farid 4096 Feb 20 20:35 mydir
-rw-r--r-- 1 farid farid   56 Feb 20 20:55 myerror.txt
-rw-r--r-- 1 farid farid   52 Feb 20 20:52 myfile.txt
-rw-r--r-- 1 farid farid   20 Feb 20 21:21 out
-rw-r--r-- 1 farid farid    0 Feb 20 21:22 output
-rw-r--r-- 1 farid farid    0 Feb 20 20:57 out.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 21:25 Pictures
```

5.

```
farid@farid-VirtualBox:~$ cd A
farid@farid-VirtualBox:~/A$ pwd
/home/farid/A
farid@farid-VirtualBox:~/A$ cd ..
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ cd /home/<user>/C
bash: user: No such file or directory
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ cd /<user>/C
bash: user: No such file or directory
farid@farid-VirtualBox:~$ pwd
/home/farid
```

Percobaan 2

1.

```
farid@farid-VirtualBox:~$ cat > contoh
Membuat sebuah file
farid@farid-VirtualBox:~$ cp contoh contoh1
farid@farid-VirtualBox:~$ ls -l
total 108
drwxr-xr-x 4 farid farid 4096 Feb 27 19:47 A
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 C
-rw-r--r-- 1 farid farid   20 Feb 27 19:59 contoh
-rw-r--r-- 1 farid farid   20 Feb 27 19:59 contoh1
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
```

2.

```
farid@farid-VirtualBox:~$ mv contoh contoh2
farid@farid-VirtualBox:~$ ls -l
total 108
drwxr-xr-x 4 farid farid 4096 Feb 27 20:00 A
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 C
-rw-r--r-- 1 farid farid   20 Feb 27 19:59 contoh1
-rw-r--r-- 1 farid farid   20 Feb 27 19:59 contoh2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Music
```

3.

```
farid@farid-VirtualBox:~$ rm contoh2
rm: cannot remove 'contoh2': No such file or directory
farid@farid-VirtualBox:~$ ls -l
total 100
drwxr-xr-x 4 farid farid 4096 Feb 27 20:00 A
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 27 19:47 C
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Music
```

Percobaan 3

```
farid@farid-VirtualBox:~$ echo "hallo wassup"
hallo wassup
farid@farid-VirtualBox:~$ ls -l
total 92
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Music
```

Percobaan 4

```
farid@farid-VirtualBox:~$ ls -l
total 92
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Music
drwxr-xr-x 2 farid farid 4096 Feb 20 20:35 mydir
-rw-r--r-- 1 farid farid   56 Feb 20 20:55 myerror.txt
-rw-r--r-- 1 farid farid   52 Feb 20 20:52 myfile.txt
-rw-r--r-- 1 farid farid   20 Feb 20 21:21 out
-rw-r--r-- 1 farid farid    0 Feb 20 21:22 output
```

Percobaan 5

```
farid@farid-VirtualBox:~$ find /home -name "*.txt" -print > myerror.txt
farid@farid-VirtualBox:~$ cat myerror.txt
/home/farid/.mozilla/firefox/ozvqf4zp.default/SecurityPreloadState.txt
/home/farid/.mozilla/firefox/ozvqf4zp.default/AlternateServices.txt
/home/farid/.mozilla/firefox/ozvqf4zp.default/SiteSecurityServiceState.txt
/home/farid/.mozilla/firefox/ozvqf4zp.default/pkcs11.txt
/home/farid/.mozilla/firefox/ozvqf4zp.default/TRRBlacklist.txt
/home/farid/hello.txt
/home/farid/baru.txt
/home/farid/bau.txt
/home/farid/myfile.txt
/home/farid/myerror.txt
/home/farid/kelas1.txt
/home/farid/kelas2.txt
/home/farid/kelas.txt
/home/farid/out.txt
```

Percobaan 6

```
farid@farid-VirtualBox:~$ grep Hallo *.txt
farid@farid-VirtualBox:~$
```

Latihan

1.

```
farid@farid-VirtualBox:~$ cd
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ ls -l
total 92
-rw-r--r-- 1 farid farid   70 Feb 20 22:24 baru
-rw-r--r-- 1 farid farid    0 Feb 20 22:19 baru.txt
-rw-r--r-- 1 farid farid   29 Feb 20 22:19 baru.urut
-rw-r--r-- 1 farid farid   29 Feb 20 22:01 bau.txt
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Desktop
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Documents
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Downloads
-rw-r--r-- 1 farid farid 8980 Feb 13 06:19 examples.desktop
-rw-r--r-- 1 farid farid   63 Feb 20 22:26 hello.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:48 kelas1.txt
-rw-r--r-- 1 farid farid    0 Feb 20 21:49 kelas2.txt
-rw-r--r-- 1 farid farid   31 Feb 20 21:50 kelas.txt
drwxr-xr-x 2 farid farid 4096 Feb 20 22:21 latihan2
drwxr-xr-x 2 farid farid 4096 Feb 13 06:48 Music
drwxr-xr-x 2 farid farid 4096 Feb 20 20:35 mydir
-rw-r--r-- 1 farid farid  532 Feb 27 21:35 myerror.txt
-rw-r--r-- 1 farid farid   52 Feb 20 20:52 myfile.txt
-rw-r--r-- 1 farid farid   20 Feb 20 21:21 out
-rw-r--r-- 1 farid farid    0 Feb 20 21:22 output
```

```
farid@farid-VirtualBox:~$ cd
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ cd ..
farid@farid-VirtualBox:/home$ pwd
/home
farid@farid-VirtualBox:/home$ ls -l
total 4
drwxr-xr-x 18 farid farid 4096 Feb 27 20:04 farid
```

```
farid@farid-VirtualBox:/home$ cd
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ ls -aL
.                .config          kelas.txt    out.txt
..               Desktop          latihan2     Pictures
baru             Documents        .local       .profile
baru.txt         Downloads        .mozilla     Public
baru.urut        examples.desktop Music        .ssh
.bash_history    .gnupg           mydir        .sudo_as_admin_successful
.bash_logout     hello.txt        myerror.txt  surat
.bashrc          .ICEauthority    myfile.txt   Templates
bau.txt          kelas1.txt       out          Videos
.cache           kelas2.txt       output
```

```
farid@farid-VirtualBox:~$ cd
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$ cd ..
farid@farid-VirtualBox:/home$ pwd
/home
farid@farid-VirtualBox:/home$ ls -aL
.   ..   farid
farid@farid-VirtualBox:/home$ cd ..
farid@farid-VirtualBox:/$ pwd
/
farid@farid-VirtualBox:/$ ls -aL
.      cdrom   initrd.img      lost+found   proc   snap       tmp
..     dev     initrd.img.old  media        root   srv        usr
bin    etc     lib             mnt          run    swapfile   var
boot   home    lib64           opt          sbin   sys        vmlinuz
```

```
farid@farid-VirtualBox:/$ cd /etc
farid@farid-VirtualBox:/etc$ ls -aL | more
.
..
acpi
adduser.conf
alternatives
anacrontab
apg.conf
apm
apparmor
apparmor.d
apport
appstream.conf
apt
avahi
```

```
farid@farid-VirtualBox:/etc$ cat passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
```

```
farid@farid-VirtualBox:/etc$ cd
farid@farid-VirtualBox:~$ pwd
/home/farid
farid@farid-VirtualBox:~$
```

2.

```
farid@farid-VirtualBox:~$ cd -
/etc
farid@farid-VirtualBox:/etc$ pwd
/etc
farid@farid-VirtualBox:/etc$ cd /bin/
farid@farid-VirtualBox:/bin$ pwd
/bin
farid@farid-VirtualBox:/bin$ cd /usr/bin/
farid@farid-VirtualBox:/usr/bin$ pwd
/usr/bin
farid@farid-VirtualBox:/usr/bin$ cd /tmp/
farid@farid-VirtualBox:/tmp$ pwd
/tmp
farid@farid-VirtualBox:/tmp$ cd /boot/
farid@farid-VirtualBox:/boot$ pwd
/boot
```

3.

```
dh_python2              ps2txt
dh_python3              psed
dialog                  psfaddtable
diff                    psfgettable
diff3                   psfstriptable
diffstat                psfxtable
dig                     pstree
dircolors               pstree.x11
dirname                 pstruct
dirsplit                ptar
dm-tool                 ptardiff
do-release-upgrade      ptargrep
dotlockfile             ptx
```

4.

```
farid@farid-VirtualBox:/boot$ cd /dev
farid@farid-VirtualBox:/dev$ who al i
farid@farid-VirtualBox:/dev$
```

5.

```
farid@farid-VirtualBox:/dev$ cd proc
bash: cd: proc: No such file or directory
farid@farid-VirtualBox:/dev$ cat interrupts
cat: interrupts: No such file or directory
farid@farid-VirtualBox:/dev$ cat devices
cat: devices: No such file or directory
farid@farid-VirtualBox:/dev$ cat cpuinfo
cat: cpuinfo: No such file or directory
farid@farid-VirtualBox:/dev$ cat meminfo
cat: meminfo: No such file or directory
```

6.

```
farid@farid-VirtualBox:/dev$ cd student
bash: cd: student: No such file or directory
farid@farid-VirtualBox:/dev$ pwd
/dev
```

7.

```
farid@farid-VirtualBox:/dev$ cd
farid@farid-VirtualBox:~$ pwd
/home/farid
```

8.

```
farid@farid-VirtualBox:~$ cd /home/farid/oke
bash: cd: /home/farid/oke: No such file or directory
farid@farid-VirtualBox:~$ mkdir word
farid@farid-VirtualBox:~$ mkdir play
farid@farid-VirtualBox:~$ rm -rf -i word
rm: remove directory 'word'?
```

9.

```
farid@farid-VirtualBox:~$ rm -rf -i word
rm: remove directory 'word'? cp /etc/passwd $home
farid@farid-VirtualBox:~$ cd ..
farid@farid-VirtualBox:/home$ ls
farid
```

10.

```
farid@farid-VirtualBox:/home$ ln -P /dev/tty terminal
ln: failed to create hard link 'terminal' => '/dev/tty': Invalid cross-device li
nk
farid@farid-VirtualBox:/home$ cat terminal
cat: terminal: No such file or directory
```

11.

```
farid@farid-VirtualBox:/home$ echo "hello world">hello.txt
bash: hello.txt: Permission denied
farid@farid-VirtualBox:/home$ cp hello.txt
cp: missing destination file operand after 'hello.txt'
Try 'cp --help' for more information.
farid@farid-VirtualBox:/home$ cp hello.txt terminal
cp: cannot stat 'hello.txt': No such file or directory
farid@farid-VirtualBox:/home$ cat terminal
cat: terminal: No such file or directory
```

12.

```
farid@farid-VirtualBox:/home$ cp hello.txt terminal
cp: cannot stat 'hello.txt': No such file or directory
```
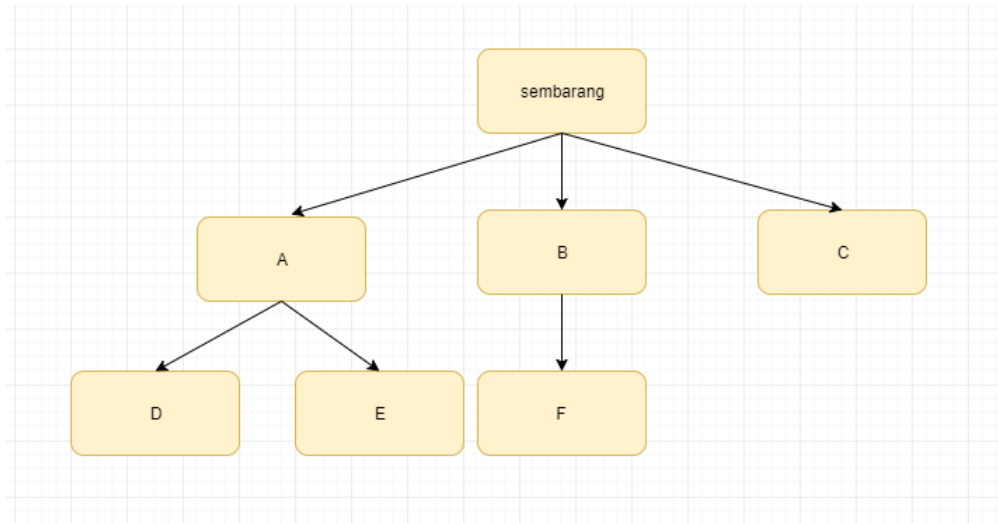
13.

```
farid@farid-VirtualBox:/home$ cp hello.txt terminal
cp: cannot stat 'hello.txt': No such file or directory
farid@farid-VirtualBox:/home$ ln -S -farid/*oke/play/work
ln: missing file operand
Try 'ln --help' for more information.
farid@farid-VirtualBox:/home$ cd oke/play/work
bash: cd: oke/play/work: No such file or directory
farid@farid-VirtualBox:/home$ oke/play/work
bash: oke/play/work: No such file or directory
```

14.

```
farid@farid-VirtualBox:/home$ rm -rf work
farid@farid-VirtualBox:/home$ ls
farid
```

LAPORAN RESM

1. Analisa hasil percobaan yang Anda lakukan
   a. Analisa setiap hasil tampilannya
      Sudah dikerjakan pada bab laporan sementara di setiap percobaannya.

   b. Pada percobaan 1 point 3 buatlah pohon dari struktur file dan direktori

   c. Bila terdapat pesan error, jelaskan penyebabnya.
      Sudah terdapat pada analisis

2. Kerjakan latihan diatas dan analisa hasilnya.
   Latihan berserta analisanya sudah terdapat pada bab latihan.

3. Berikan kesimpulan dari praktikum ini.
   Kesimpulan :
   Sistem file pada linux menyerupai tree yang dimulai dari root kemudia direktori dan subdirektori. Ada 2 macam symbolic link yaitu softlink dan hardlink.