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-PERTEMUAN 4-

Percobaan 1 : Direktori

1. Melihat direktori HOME

```
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ echo $HOME
/home/deanissa
```

2. Melihat direktori aktual dan parent direktori

```
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ cd.
Command 'cd.' not found, did you mean:
  command 'cdb' from deb tinycdb (0.78build3)
  command 'cdp' from deb irpas (0.10-9)
  command 'cdi' from deb cdo (2.0.4-1)
  command 'cd5' from deb cd5 (0.1-4)
  command 'cde' from deb cde (0.1+git9-g551e54d-1.2)
  command 'cdw' from deb cdw (0.8.1-2)
  command 'cdo' from deb cdo (2.0.4-1)
Try: sudo apt install <deb name>
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ cd..
cd.: command not found
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ cd
```

3. Membuat satu direktori, lebih dari satu direktori atau sub direktori

```
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ mkdir A B C A/D A/E B/F A/D/A
mkdir: cannot create directory 'A': File exists
mkdir: cannot create directory 'B': File exists
mkdir: cannot create directory 'C': File exists
mkdir: cannot create directory 'A/D': File exists
mkdir: cannot create directory 'B/F': File exists
mkdir: cannot create directory 'A/D/A': File exists
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:37 A
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 B
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 C
drwxr-xr-x 1 deanissa deanissa 512 Mar 7 12:48 backup
-rw-r--r-- 1 deanissa deanissa 41 Mar 11 11:04 baru
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:34 f3
-rw-r--r-- 1 deanissa deanissa 54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa 45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa 31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa 14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latuhan2
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 10:41 mydir
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa 52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa 20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa 13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
deanissa@DESKTOP-9U498E1:~$ ls -l A
total 0
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 D
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:37 E
```

```
deanissa@DESKTOP-9U498E1:~$ ls -l A/D
total 0
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 A
```

4. Menghapus satu atau lebih direktori hanya dapat dilakukan pada direktori kosong dan hanya dapat dihapus oleh pemiliknya kecuali bila diberikan ijin aksesnya

```
deanissa@DESKTOP-9U498E1:~$ rmdir B
rmdir: failed to remove 'B': Directory not empty
deanissa@DESKTOP-9U498E1:~$ ls -l B
total 0
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 F
deanissa@DESKTOP-9U498E1:~$ rmdir B/F B
deanissa@DESKTOP-9U498E1:~$ ls -l B
ls: cannot access 'B': No such file or directory
```

- **\$ rmdir B error rmdir: failed to remove 'B': Directory not empty**
Terjadi error, karena disini mencoba menghapus direktori 'B', tetapi direktori tersebut tidak kosong, ini berarti ada file atau sub-direktori di dalamnya.
- **\$ ls -l B error ls: cannot access 'B': No such file or directory**
Terjadi error, karena sistem tidak dapat menemukan direktori 'B' saat mencoba menggunakan perintah 'ls'.

5. Navigasi direktori dengan instruksi cd untuk pindah dari satu direktori ke direktori lain

```
deanissa@DESKTOP-9U498E1:~$ cd A
deanissa@DESKTOP-9U498E1:~/A$ pwd
/home/deanissa/A
deanissa@DESKTOP-9U498E1:~/A$ cd ..
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ cd /home/<user>/C
-bash: user: No such file or directory
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ cd /<user>/C
-bash: user/C: No such file or directory
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
```

- **\$ cd /<user>/C error -bash: user/C: No such file or directory**
Terjadi error, karena sistem tidak dapat menemukan direktori yang coba diakses, yaitu "/<user>/C".

Percobaan 2 : Manipulasi File

1. Perintah cp untuk mengkopi file atau seluruh direktori

```
deanissa@DESKTOP-9U498E1:~$ cat > contoh
Membuat sebuah file
deanissa@DESKTOP-9U498E1:~$ cp contoh contoh1
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:37 A
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 C
drwxr-xr-x 1 deanissa deanissa 512 Mar 7 12:48 backup
-rw-r--r-- 1 deanissa deanissa 41 Mar 11 11:04 baru
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:46 contoh
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:46 contoh1
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:34 f3
-rw-r--r-- 1 deanissa deanissa 54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa 45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa 31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa 14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 10:41 mydir
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa 52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa 20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa 13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
```

```
deanissa@DESKTOP-9U498E1:~$ cp contoh A
deanissa@DESKTOP-9U498E1:~$ ls -l A
total 0
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 D
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:37 E
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:47 contoh
deanissa@DESKTOP-9U498E1:~$ cp contoh contoh1 A/D
deanissa@DESKTOP-9U498E1:~$ ls -l A/D
total 0
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 A
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:47 contoh
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:47 contoh1
```

2. Perintah mv untuk memindah file

```
deanissa@DESKTOP-9U498E1:~$ mv contoh contoh2
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar 17 10:47 A
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 C
drwxr-xr-x 1 deanissa deanissa 512 Mar 7 12:48 backup
-rw-r--r-- 1 deanissa deanissa 41 Mar 11 11:04 baru
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:46 contoh1
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:46 contoh2
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:34 f3
-rw-r--r-- 1 deanissa deanissa 54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa 45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa 31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa 14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latuhan2
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 10:41 mydir
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa 52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa 20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa 13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
deanissa@DESKTOP-9U498E1:~$ mv contoh1 contoh2 A/D
deanissa@DESKTOP-9U498E1:~$ ls -l A/D
total 0
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 A
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:47 contoh
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:46 contoh1
-rw-r--r-- 1 deanissa deanissa 20 Mar 17 10:46 contoh2
deanissa@DESKTOP-9U498E1:~$ mv contoh contoh1 C
mv: cannot stat 'contoh': No such file or directory
mv: cannot stat 'contoh1': No such file or directory
deanissa@DESKTOP-9U498E1:~$ ls -l C
total 0
```

3. Perintah rm untuk menghapus file

```
deanissa@DESKTOP-9U498E1:~$ rm contoh2
rm: cannot remove 'contoh2': No such file or directory
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar 17 10:47 A
drwxr-xr-x 1 deanissa deanissa 512 Mar 16 21:34 C
drwxr-xr-x 1 deanissa deanissa 512 Mar 7 12:48 backup
-rw-r--r-- 1 deanissa deanissa 41 Mar 11 11:04 baru
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:34 f3
-rw-r--r-- 1 deanissa deanissa 54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa 45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa 31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa 14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 10:41 mydir
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa 52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa 20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa 13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
deanissa@DESKTOP-9U498E1:~$ rm -i contoh
rm: cannot remove 'contoh': No such file or directory
deanissa@DESKTOP-9U498E1:~$ rm -rf A C
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar 7 12:48 backup
-rw-r--r-- 1 deanissa deanissa 41 Mar 11 11:04 baru
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:34 f3
-rw-r--r-- 1 deanissa deanissa 54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa 45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa 31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa 14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 10:41 mydir
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa 52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa 20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa 13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
deanissa@DESKTOP-9U498E1:~$
```

Percobaan 3 : Symbolic Link

1. Membuat shortcut (file link)

```
deanissa@DESKTOP-9U498E1:~$ echo "Hallo apa khabar"> halo.txt
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar  7 12:48 backup
-rw-r--r-- 1 deanissa deanissa  41 Mar 11 11:04 baru
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:34 f3
-rw-r--r-- 1 deanissa deanissa  17 Mar 17 11:06 halo.txt
-rw-r--r-- 1 deanissa deanissa  54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa  45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa  31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa  14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latuhan2
-rw-r--r-- 1 deanissa deanissa  12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa  12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 10:41 mydir
-rw-r--r-- 1 deanissa deanissa  56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa  52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa  20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa  56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa   0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa   0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa  13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
deanissa@DESKTOP-9U498E1:~$ ln halo.txt z
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar  7 12:48 backup
-rw-r--r-- 1 deanissa deanissa  41 Mar 11 11:04 baru
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:34 f3
-rw-r--r-- 2 deanissa deanissa  17 Mar 17 11:06 halo.txt
-rw-r--r-- 1 deanissa deanissa  54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa  45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa  31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa  14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latuhan2
-rw-r--r-- 1 deanissa deanissa  12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa  12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 10:41 mydir
-rw-r--r-- 1 deanissa deanissa  56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa  52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa  20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa  56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa   0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa   0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa  13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
-rw-r--r-- 2 deanissa deanissa  17 Mar 17 11:06 z
deanissa@DESKTOP-9U498E1:~$ mkdir mydir
mkdir: cannot create directory 'mydir': File exists
deanissa@DESKTOP-9U498E1:~$ ln z mydir/halo.juga
deanissa@DESKTOP-9U498E1:~$ cat mydir/halo.juga
Hallo apa khabar
deanissa@DESKTOP-9U498E1:~$ ln -s z bye.txt
deanissa@DESKTOP-9U498E1:~$ ls -l bye.txt
lrwxrwxrwx 1 deanissa deanissa 1 Mar 17 11:09 bye.txt -> z
deanissa@DESKTOP-9U498E1:~$ cat bye.txt
Hallo apa khabar
```

Percobaan 4 : Melihat isi File

```
deanissa@DESKTOP-9U498E1:~$ ls -l
total 12
drwxr-xr-x 1 deanissa deanissa 512 Mar  7 12:48 backup
-rw-r--r-- 1 deanissa deanissa 41 Mar 11 11:04 baru
lrwxrwxrwx 1 deanissa deanissa  1 Mar 17 11:09 bye.txt -> z
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar  7 12:34 f3
-rw-r--r-- 3 deanissa deanissa  17 Mar 17 11:06 halo.txt
-rw-r--r-- 1 deanissa deanissa  54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa  45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa  31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa  14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latuhan2
-rw-r--r-- 1 deanissa deanissa  12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa  12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 17 11:09 mydir
-rw-r--r-- 1 deanissa deanissa  56 Mar 11 10:59 myerror.txt
-rw-r--r-- 1 deanissa deanissa  52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa  20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa  56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa   0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa   0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa  13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
-rw-r--r-- 3 deanissa deanissa  17 Mar 17 11:06 z
deanissa@DESKTOP-9U498E1:~$ file halo.txt
halo.txt: ASCII text
deanissa@DESKTOP-9U498E1:~$ file bye.txt
bye.txt: symbolic link to z
```

Percobaan 5 : Mencari File

1. Perintah find

```
deanissa@DESKTOP-9U498E1:~$ find /home -name "*.txt" -print > myerror.txt
deanissa@DESKTOP-9U498E1:~$ cat myerror.txt
/home/deanissa/backup/prog.txt
/home/deanissa/bye.txt
/home/deanissa/halo.txt
/home/deanissa/hello.txt
/home/deanissa/kelas.txt
/home/deanissa/kelas1.txt
/home/deanissa/kelas2.txt
/home/deanissa/list_direktori.txt
/home/deanissa/myerror.txt
/home/deanissa/mylife.txt
/home/deanissa/out.txt
/home/deanissa/rmdirerror.txt
/home/deanissa/urut.txt
deanissa@DESKTOP-9U498E1:~$ find . -name "*.txt" -exec wc -l '{}' ';'
56 ./backup/prog.txt
1 ./bye.txt
1 ./halo.txt
5 ./hello.txt
8 ./kelas.txt
5 ./kelas1.txt
3 ./kelas2.txt
16 ./list_direktori.txt
13 ./myerror.txt
2 ./mylife.txt
1 ./out.txt
0 ./rmdirerror.txt
16 ./urut.txt
```

2. Perintah switch

```
deanissa@DESKTOP-9U498E1:~$ switch ls
Command 'switch' not found, did you mean:
  command 'sqitch' from deb sqitch (1.2.1-1)
  command 'kswitch' from deb krb5-user (1.19.2-2ubuntu0.2)
  command 'kswitch' from deb heimdal-clients (7.7.0+dfsg-3ubuntu1)
Try: sudo apt install <deb name>
```

3. Perintah locate

```
deanissa@DESKTOP-9U498E1:~$ locate "*.txt"
/home/deanissa/bye.txt
/home/deanissa/halo.txt
/home/deanissa/hello.txt
/home/deanissa/kelas.txt
/home/deanissa/kelas1.txt
/home/deanissa/kelas2.txt
/home/deanissa/list_direktori.txt
/home/deanissa/myerror.txt
/home/deanissa/mylife.txt
/home/deanissa/out.txt
/home/deanissa/rmdirerror.txt
/home/deanissa/urut.txt
/home/deanissa/backup/prog.txt
/mnt/d/$RECYCLE.BIN/S-1-5-21-204207718-749801346-3532241042-1001/$I3K03DO.txt
/mnt/d/$RECYCLE.BIN/S-1-5-21-204207718-749801346-3532241042-1001/$I9KISM0.txt
/mnt/d/$RECYCLE.BIN/S-1-5-21-204207718-749801346-3532241042-1001/$IMUV7ME.txt
/mnt/d/$RECYCLE.BIN/S-1-5-21-204207718-749801346-3532241042-1001/$IU03XXP.txt
/mnt/d/$RECYCLE.BIN/S-1-5-21-204207718-749801346-3532241042-1001/$IYNAXAX.txt
/mnt/d/SMT 1- STB/CoreLDRAW.Graphics.Suite.22.0.0.412.x64/CoreLDRAW.Graphics.Suite.
22.0.0.412.x64/Needed Instruccioness Before You Install.txt
/mnt/d/xampp/passwords.txt
/mnt/d/xampp/readme_de.txt
/mnt/d/xampp/readme_en.txt
/mnt/d/xampp/FileZillaFTP/license.txt
/mnt/d/xampp/MercuryMail/BearTLDs.txt
/mnt/d/xampp/MercuryMail/FreeImage-license.txt
/mnt/d/xampp/MercuryMail/bearhtml_readme.txt
/mnt/d/xampp/MercuryMail/bearwarn.txt
/mnt/d/xampp/MercuryMail/hangup32.txt
/mnt/d/xampp/MercuryMail/libiconv.txt
/mnt/d/xampp/MercuryMail/pr2dis.txt
/mnt/d/xampp/MercuryMail/predis.txt
/mnt/d/xampp/MercuryMail/readme.txt
/mnt/d/xampp/MercuryMail/RESOURCE/bpanel.txt
/mnt/d/xampp/MercuryMail/RESOURCE/daemon.txt
```

Percobaan 6 : Mencari text pada file

```
deanissa@DESKTOP-9U498E1:~$ grep Hallo *.txt
bye.txt:Hallo apa khabar
halo.txt:Hallo apa khabar
```


LATIHAN

1. Cobalah urutan perintah berikut

- \$ cd, \$ pwd, \$ ls -al

```
deanissa@DESKTOP-9U498E1:~$ cd
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ ls -al
total 24
drwxr-xr-x 1 deanissa deanissa 512 Mar 17 11:09 .
drwxr-xr-x 1 root root 512 Mar 7 11:07 ..
-rw-r--r-- 1 deanissa deanissa 2664 Mar 16 21:49 .bash_history
-rw-r--r-- 1 deanissa deanissa 220 Mar 7 11:07 .bash_logout
-rw-r--r-- 1 deanissa deanissa 3771 Mar 7 11:07 .bashrc
-rw-r--r-- 1 deanissa deanissa 20 Mar 7 12:09 .lessshst
-rw-r--r-- 1 deanissa deanissa 0 Mar 21 08:22 .motd_shown
-rw-r--r-- 1 deanissa deanissa 807 Mar 7 11:07 .profile
-rw-r--r-- 1 deanissa deanissa 0 Mar 7 11:30 .sudo_as_admin_successful
drwxr-xr-x 1 deanissa deanissa 512 Mar 7 12:48 backup
-rw-r--r-- 1 deanissa deanissa 41 Mar 11 11:04 baru
lrwxrwxrwx 1 deanissa deanissa 1 Mar 17 11:09 bye.txt -> z
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f1
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:31 f2
-rw-r--r-- 1 deanissa deanissa 806 Mar 7 12:34 f3
-rw-r--r-- 3 deanissa deanissa 17 Mar 17 11:06 halo.txt
-rw-r--r-- 1 deanissa deanissa 54 Mar 11 12:49 hello.txt
-rw-r--r-- 1 deanissa deanissa 45 Mar 11 12:14 kelas.txt
-rw-r--r-- 1 deanissa deanissa 31 Mar 11 12:12 kelas1.txt
-rw-r--r-- 1 deanissa deanissa 14 Mar 11 12:13 kelas2.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latihan2
drwxr-xr-x 1 deanissa deanissa 512 Mar 11 12:44 latuhan2
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:36 list
-rw-r--r-- 1 deanissa deanissa 12 Mar 11 12:38 list_direktori.tct
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:33 list_direktori.txt
drwxr-xr-x 1 deanissa deanissa 512 Mar 17 11:09 mydir
-rw-r--r-- 1 deanissa deanissa 344 Mar 17 11:15 myerror.txt
-rw-r--r-- 1 deanissa deanissa 52 Mar 11 10:55 mylife.txt
-rw-r--r-- 1 deanissa deanissa 20 Mar 11 11:17 out
-rw-r--r-- 1 deanissa deanissa 56 Mar 11 11:00 out.txt
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 11:18 output
-rw-r--r-- 1 deanissa deanissa 0 Mar 11 12:44 rmdirerror.txt
-rw-r--r-- 1 deanissa deanissa 13 Mar 11 11:09 surat
-rw-r--r-- 1 deanissa deanissa 126 Mar 11 12:41 urut.txt
-rw-r--r-- 3 deanissa deanissa 17 Mar 17 11:06 z
```

- \$ cd .., \$ pwd, \$ cd .., \$ pwd, \$ ls -al

```
deanissa@DESKTOP-9U498E1:~$ cd .
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ cd ..
deanissa@DESKTOP-9U498E1:/home$ pwd
/home
deanissa@DESKTOP-9U498E1:/home$ ls -al
total 0
drwxr-xr-x 1 root root 512 Mar 7 11:07 .
drwxr-xr-x 1 root root 512 Mar 7 11:07 ..
drwxr-xr-x 1 deanissa deanissa 512 Mar 17 11:09 deanissa
```

- \$ cd .., \$ pwd, \$ ls -al

```
deanissa@DESKTOP-9U498E1:/home$ cd ..
deanissa@DESKTOP-9U498E1:/ $ pwd
/
deanissa@DESKTOP-9U498E1:/ $ ls -al
total 632
drwxr-xr-x 1 root root 512 Mar 7 11:07 .
drwxr-xr-x 1 root root 512 Mar 7 11:07 ..
lrwxrwxrwx 1 root root 7 Nov 23 04:36 bin -> usr/bin
drwxr-xr-x 1 root root 512 Apr 18 2022 boot
drwxr-xr-x 1 root root 512 Mar 21 08:22 dev
drwxr-xr-x 1 root root 512 Mar 21 08:22 etc
drwxr-xr-x 1 root root 512 Mar 7 11:07 home
-rwxr-xr-x 1 root root 644432 Mar 7 10:51 init
lrwxrwxrwx 1 root root 7 Nov 23 04:36 lib -> usr/lib
lrwxrwxrwx 1 root root 9 Nov 23 04:36 lib32 -> usr/lib32
lrwxrwxrwx 1 root root 9 Nov 23 04:36 lib64 -> usr/lib64
lrwxrwxrwx 1 root root 10 Nov 23 04:36 libx32 -> usr/libx32
drwxr-xr-x 1 root root 512 Nov 23 04:36 media
drwxr-xr-x 1 root root 512 Mar 7 11:07 mnt
drwxr-xr-x 1 root root 512 Nov 23 04:36 opt
dr-xr-xr-x 9 root root 0 Mar 21 08:22 proc
drwx----- 1 root root 512 Nov 23 04:37 root
drwxr-xr-x 1 root root 512 Mar 21 08:22 run
lrwxrwxrwx 1 root root 8 Nov 23 04:36 sbin -> usr/sbin
drwxr-xr-x 1 root root 512 Nov 23 04:37 snap
drwxr-xr-x 1 root root 512 Nov 23 04:36 srv
dr-xr-xr-x 12 root root 0 Mar 21 08:22 sys
drwxrwxrwt 1 root root 512 Mar 17 11:19 tmp
drwxr-xr-x 1 root root 512 Nov 23 04:36 usr
drwxr-xr-x 1 root root 512 Nov 23 04:37 var
```

- \$ cd /etc, \$ ls -al | more

```
deanissa@DESKTOP-9U498E1:/ $ cd /etc
deanissa@DESKTOP-9U498E1:/etc$ ls -al | more
total 345
drwxr-xr-x 1 root root 512 Mar 21 08:22 .
drwxr-xr-x 1 root root 512 Mar 7 11:07 ..
-rw----- 1 root root 0 Nov 23 04:36 .pwd.lock
drwxr-xr-x 1 root root 512 Nov 23 04:37 PackageKit
drwxr-xr-x 1 root root 512 Nov 23 04:37 X11
-rw-r--r-- 1 root root 3028 Nov 23 04:36 adduser.conf
-rw-r--r-- 1 root root 51 Mar 11 10:30 aliases
-rw-r--r-- 1 root root 1536 Mar 11 10:30 aliases.db
drwxr-xr-x 1 root root 512 Mar 17 11:19 alternatives
drwxr-xr-x 1 root root 512 Nov 23 04:37 apparmor
drwxr-xr-x 1 root root 512 Nov 23 04:37 apparmor.d
drwxr-xr-x 1 root root 512 Nov 23 04:37 appport
drwxr-xr-x 1 root root 512 Nov 23 04:37 apt
-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 1 root root 512 Nov 23 04:37 bash_completion.d
-rw-r--r-- 1 root root 367 Dec 16 2020 bindresvport.blacklist
drwxr-xr-x 1 root root 512 Apr 8 2022 binfmt.d
drwxr-xr-x 1 root root 512 Nov 23 04:37 byobu
drwxr-xr-x 1 root root 512 Nov 23 04:36 ca-certificates
-rw-r--r-- 1 root root 6253 Nov 23 04:36 ca-certificates.conf
-rw-r--r-- 1 root root 5529 Nov 23 04:36 ca-certificates.conf.dpkg-old
drwxr-xr-x 1 root root 512 Nov 23 04:36 console-setup
drwxr-xr-x 1 root root 512 Nov 23 04:36 cron.d
drwxr-xr-x 1 root root 512 Mar 17 11:19 cron.daily
drwxr-xr-x 1 root root 512 Nov 23 04:36 cron.hourly
drwxr-xr-x 1 root root 512 Nov 23 04:36 cron.monthly
drwxr-xr-x 1 root root 512 Nov 23 04:37 cron.weekly
-rw-r--r-- 1 root root 1136 Mar 23 2022 crontab
drwxr-xr-x 1 root root 512 Nov 23 04:36 dbus-1
-rw-r--r-- 1 root root 2969 Feb 20 2022 debconf.conf
-rw-r--r-- 1 root root 13 Aug 23 2021 debian_version
drwxr-xr-x 1 root root 512 Nov 23 04:37 default
-rw-r--r-- 1 root root 604 Sep 16 2018 deluser.conf
drwxr-xr-x 1 root root 512 Nov 23 04:36 depmod.d
drwxr-xr-x 1 root root 512 Nov 23 04:36 dhcp
drwxr-xr-x 1 root root 512 Nov 23 04:36 dpkg
-rw-r--r-- 1 root root 685 Jan 9 2022 e2scrub.conf
-rw-r--r-- 1 root root 106 Nov 23 04:36 environment
```

- \$ cat passwd, \$ cd -, \$ pwd

```
deanissa@DESKTOP-9U498E1:/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
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:nonexistent:/usr/sbin/nologin
uidd:x:106:112:/:run/uidd:/usr/sbin/nologin
tcpdump:x:107:113:/:nonexistent:/usr/sbin/nologin
deanissa:x:1000:1000:Lab Pemograman 2,2301,5947280:/home/deanissa:/bin/bash
postfix:x:108:118:/:var/spool/postfix:/usr/sbin/nologin
deanissa@DESKTOP-9U498E1:/etc$ cd -
/
deanissa@DESKTOP-9U498E1:/ $ pwd
/
```

2. Lanjutkan penelusuran pohon pada sistem file menggunakan cd, ls, pwd dan cat. Telusuri direktory /bin, /usr/bin, /sbin, /tmp dan /boot.

```
deanissa@DESKTOP-9U498E1:/ $ cd
deanissa@DESKTOP-9U498E1:~$ ls
backup      f3          kelas2.txt  list_direktori.txt  out.txt      z
baru        halo.txt   latihan2    mydir               output
bye.txt     hello.txt  latihan2    myerror.txt         rmdirerror.txt
f1          kelas.txt  list       mylife.txt          surat
f2          kelas1.txt list_direktori.txt out                 urut.txt
deanissa@DESKTOP-9U498E1:~$ pwd
/home/deanissa
deanissa@DESKTOP-9U498E1:~$ cat bye.txt
Hallo apa khabar
```

- /bin

```
deanissa@DESKTOP-9U498E1:~$ cd /bin
deanissa@DESKTOP-9U498E1:/bin$ ls
NF                               nice
["                               nisdomainname
aa-enabled                       nl
aa-exec                          nm
aa-features-abi                 nohup
add-apt-repository              nproc
addpart                         nroff
addr2line                       nsenter
apport-bug                      nslookup
apport-cll                      nstat
apport-collect                  nupdate
apport-unpack                   ntfs-3g
apropos                         ntfs-3g.probe
apt                             ntfsfix
apt-add-repository              ntfscluster
apt-cache                       ntfscomp
apt-cdrom                       ntfsdecrypt
apt-config                      ntfsfallocate
apt-extracttemplates            ntfsfix
apt-ftparchive                  ntfsinfo
apt-get                         ntfslabel
apt-key                         ntfsmove
apt-mark                        ntfsrecover
apt-sortpkgs                    ntfssecaudit
ar                               ntfstruncate
arch                            ntfsusermap
as                               ntfswipe
awk                             numfmt
b2sum                           objcopy
base32                          objdump
base64                          od
basenam                         oem-getlogs
basenc                           on_ac_power
bash                            openssl
bashbug                        opentv
bootctl                         pager
busctl                         parts
busybox                        passwd
```

- /usr/bin

```

deanissa@DESKTOP-9U498E1:/bin$ cd /usr/bin
deanissa@DESKTOP-9U498E1:/usr/bin$ ls
NF                               nice
['                               nisdomainname
aa-enabled                       nl
aa-exec                          nm
aa-features-abi                 nohup
add-apt-repository              nproc
addpart                         nroff
addr2line                       nsenter
apport-bug                      nslookup
apport-cli                     nstat
apport-collect                  nsupdate
apport-unpack                   ntfs-3g
apropos                         ntfs-3g.probe
apt                             ntfsclat
apt-add-repository              ntfscluster
apt-cache                      ntfsdcmp
apt-cdrom                      ntfsdecrypt
apt-config                     ntfsfallocate
apt-extracttemplates           ntfsfix
apt-ftparchive                 ntfsinfo
apt-get                         ntfsis
apt-key                         ntfsmove
apt-mark                       ntfsrecover
apt-sortpkgs                   ntfssecaudit
ar                              ntfstruncate
arch                            ntfsusermap
as                              ntfswipe
awk                             numfmt
b2sum                          objcopy
base32                         objdump
base64                         od
basename                      oem-getlogs
basenc                         on_ac_power
bash                           openssl
bashbug                       openvt
bootctl                       pager
busctl                        parts
busybox                       passwd
byobu                         paste
byobu-config                  pastebinit
byobu-ctrl-a                  patch

```

- /sbin

```

deanissa@DESKTOP-9U498E1:/usr/bin$ cd /sbin
deanissa@DESKTOP-9U498E1:/sbin$ ls
aa-remove-unknown              grpconv
aa-status                      grpunconv
aa-teardown                    halt
accessdb                      hdparm
add-shell                      hwclock
addgnupghome                  iconvconfig
addgroup                      init
adduser                      insmod
agetty                        installkernel
apparmor_parser               invoke-rc.d
apparmor_status               ip
applygnupgdefaults           iptables
arpd                          iptables-apply
arptables                     iptables-legacy
arptables-nft                 iptables-legacy-restore
arptables-nft-restore         iptables-legacy-save
arptables-nft-save            iptables-nft
arptables-restore             iptables-nft-restore
arptables-save                iptables-nft-save
badblocks                     iptables-restore
biosdecode                    iptables-restore-translate
blkdeactivate                 iptables-save
blkdiscard                     iptables-translate
blkid                          iptables
blkzone                       iptables-apply
blockdev                      iptables-legacy
bridge                         iptables-legacy-restore
brctl                         iptables-legacy-save
brctl                          iptables-nft
chcpu                         iptables-nft-restore
chgrp                         iptables-nft-save
chmem                         iptables-restore
chpasswd                      iptables-restore-translate
chroot                        iptables-save
cpgn                          iptables-translate
cpio                          irqbalance
cron                          irqbalance-ui
ctrlaltdel                    isosize
dcb                           runlevel
plocate-build                 plymouthd
plocate-build                 postalias
plocate-build                 postcat
plocate-build                 postconf
plocate-build                 postdrop
plocate-build                 postfix
plocate-build                 postfix-add-filter
plocate-build                 postfix-add-policy
plocate-build                 postfix-collate
plocate-build                 postkick
plocate-build                 postlock
plocate-build                 postlog
plocate-build                 postmap
plocate-build                 postmulti
plocate-build                 postqueue
plocate-build                 postsuper
plocate-build                 posttls-finger
plocate-build                 poweroff
plocate-build                 pwck
plocate-build                 pwconv
plocate-build                 pwunconv
plocate-build                 qmqp-sink
plocate-build                 qmqp-source
plocate-build                 qshape
plocate-build                 readprofile
plocate-build                 reboot
plocate-build                 remove-shell
plocate-build                 resize2fs
plocate-build                 rmail
plocate-build                 rmdir
plocate-build                 rm
plocate-build                 rm-tar
plocate-build                 rsyslogd
plocate-build                 rtact
plocate-build                 rtcwake
plocate-build                 rtmon
plocate-build                 runlevel

```

- /boot

3. Telusuri direktory /dev. Identifikasi perangkat yang tersedia. Identifikasi tty (terminal) Anda (ketik who am i); siapa pemilih tty Anda (gunakan ls -l).

```
deanissa@DESKTOP-9U498E1:/boot$ cd /dev
deanissa@DESKTOP-9U498E1:/dev$ ls
block      ttys105  ttys127  ttys149  ttys170  ttys2    ttys41  ttys63  ttys85
dmg        ttys106  ttys128  ttys15  ttys171  ttys20  ttys42  ttys64  ttys86
fd         ttys107  ttys129  ttys150  ttys172  ttys21  ttys43  ttys65  ttys87
kmsg       ttys108  ttys13  ttys151  ttys173  ttys22  ttys44  ttys66  ttys88
lxs        ttys109  ttys130  ttys152  ttys174  ttys23  ttys45  ttys67  ttys89
null       ttys11  ttys131  ttys153  ttys175  ttys24  ttys46  ttys68  ttys9
ptmx       ttys110  ttys132  ttys154  ttys176  ttys25  ttys47  ttys69  ttys90
pts        ttys111  ttys133  ttys155  ttys177  ttys26  ttys48  ttys7  ttys91
random     ttys112  ttys134  ttys156  ttys178  ttys27  ttys49  ttys70  ttys92
shm        ttys113  ttys135  ttys157  ttys179  ttys28  ttys5  ttys71  ttys93
stderr     ttys114  ttys136  ttys158  ttys18  ttys29  ttys50  ttys72  ttys94
stdin      ttys115  ttys137  ttys159  ttys180  ttys3  ttys51  ttys73  ttys95
stdout     ttys116  ttys138  ttys16  ttys181  ttys30  ttys52  ttys74  ttys96
tty        ttys117  ttys139  ttys160  ttys182  ttys31  ttys53  ttys75  ttys97
tty0       ttys118  ttys14  ttys161  ttys183  ttys32  ttys54  ttys76  ttys98
tty1       ttys119  ttys140  ttys162  ttys184  ttys33  ttys55  ttys77  ttys99
ttyS0      ttys12  ttys141  ttys163  ttys185  ttys34  ttys56  ttys78  unrandom
ttyS1      ttys120  ttys142  ttys164  ttys186  ttys35  ttys57  ttys79  zero
ttyS10     ttys121  ttys143  ttys165  ttys187  ttys36  ttys58  ttys8
ttyS100    ttys122  ttys144  ttys166  ttys188  ttys37  ttys59  ttys80
ttyS101    ttys123  ttys145  ttys167  ttys189  ttys38  ttys6  ttys81
ttyS102    ttys124  ttys146  ttys168  ttys19  ttys39  ttys60  ttys82
ttyS103    ttys125  ttys147  ttys169  ttys190  ttys4  ttys61  ttys83
ttyS104    ttys126  ttys148  ttys17  ttys191  ttys40  ttys62  ttys84
```

4. Telusuri direktory /proc. Tampilkan isi file interrupts, devices, cpuinfo, meminfo dan uptime menggunakan perintah cat. Dapatkah Anda melihat mengapa direktory /proc disebut pseudo -filesystem yang memungkinkan akses ke struktur data kernel ?

```
deanissa@DESKTOP-9U498E1:/dev$ cd /proc
deanissa@DESKTOP-9U498E1:/proc$ ls
1  54  cgroups  filesystems  meminfo  self  tty  version_signature
14 77  cmdline  interrupts  mounts  stat  uptime
15 bus  cpuinfo  loadavg    net      sys   version
```

5. Ubahlah direktory home ke user lain secara langsung menggunakan cd ~username.
6. Ubah kembali ke direktory home Anda.
7. Buat subdirektory work dan play.
8. Hapus subdirektory work

```
deanissa@DESKTOP-9U498E1:/proc$ cd ~username
-bash: cd: ~username: No such file or directory
deanissa@DESKTOP-9U498E1:/proc$ cd
deanissa@DESKTOP-9U498E1:~$ mkdir work play
deanissa@DESKTOP-9U498E1:~$ ls
backup  halo.txt  latuhan2  mylife.txt  surat
baru    hello.txt list      out         urut.txt
bye.txt kelas.txt list_direktori.tct out.txt    work
f1      kelas1.txt list_direktori.tct output     z
f2      kelas2.txt mydir     play
f3      latihan2  myerror.txt rmdirerror.txt
deanissa@DESKTOP-9U498E1:~$ rmdir work
deanissa@DESKTOP-9U498E1:~$ ls
backup  halo.txt  latuhan2  mylife.txt  surat
baru    hello.txt list      out         urut.txt
bye.txt kelas.txt list_direktori.tct out.txt    z
f1      kelas1.txt list_direktori.tct output
f2      kelas2.txt mydir     play
f3      latihan2  myerror.txt rmdirerror.txt
```

9. Copy file /etc/passwd ke direktory home Anda.

```
deanissa@DESKTOP-9U498E1:~$ cp /etc/passwd ~/pass
deanissa@DESKTOP-9U498E1:~$
```

10. Pindahkan ke subirektory play.

```
deanissa@DESKTOP-9U498E1:~$ mv ~/passwd ~/play/passwd
mv: cannot stat '/home/deanissa/passwd': No such file or directory
deanissa@DESKTOP-9U498E1:~$
```

11. Ubahlah ke subdirektory play dan buat symbolic link dengan nama terminal yang menunjuk ke perangkat tty. Apa yang terjadi jika melakukan hard link ke perangkat tty ?

```
deanissa@DESKTOP-9U498E1:~$ ln -s /dev/tty ~/play/terminal
ln: command not found
deanissa@DESKTOP-9U498E1:~$
```

12. Buatlah file bernama hello.txt yang berisi kata "hello word". Dapatkah Anda gunakan "cp" menggunakan "terminal" sebagai file asal untuk menghasilkan efek yang sama ?
13. Copy hello.txt ke terminal. Apa yang terjadi ?

```

deanissa@DESKTOP-9U498E1:~$ echo "hello word" > hello.txt
deanissa@DESKTOP-9U498E1:~$ ls
backup  halo.txt    latuhan2      mylife.txt    rmdirerror.txt
baru    hello.txt    list           out           surat
bye.txt kelas.txt    list_direktori.txt out.txt       urut.txt
f1      kelas1.txt   list_direktori.txt output        z
f2      kelas2.txt   mydir         pass
f3      latihan2     myerror.txt   play
deanissa@DESKTOP-9U498E1:~$ cat hello.txt
hello word
deanissa@DESKTOP-9U498E1:~$ cp /dev/tty hello.txt
deanissa@DESKTOP-9U498E1:~$ cp hello.txt /dev/tty
deanissa@DESKTOP-9U498E1:~$

```

14. Masih direktory home, copy keseluruhan direktory play ke direktory bernama work menggunakan symbolic link.

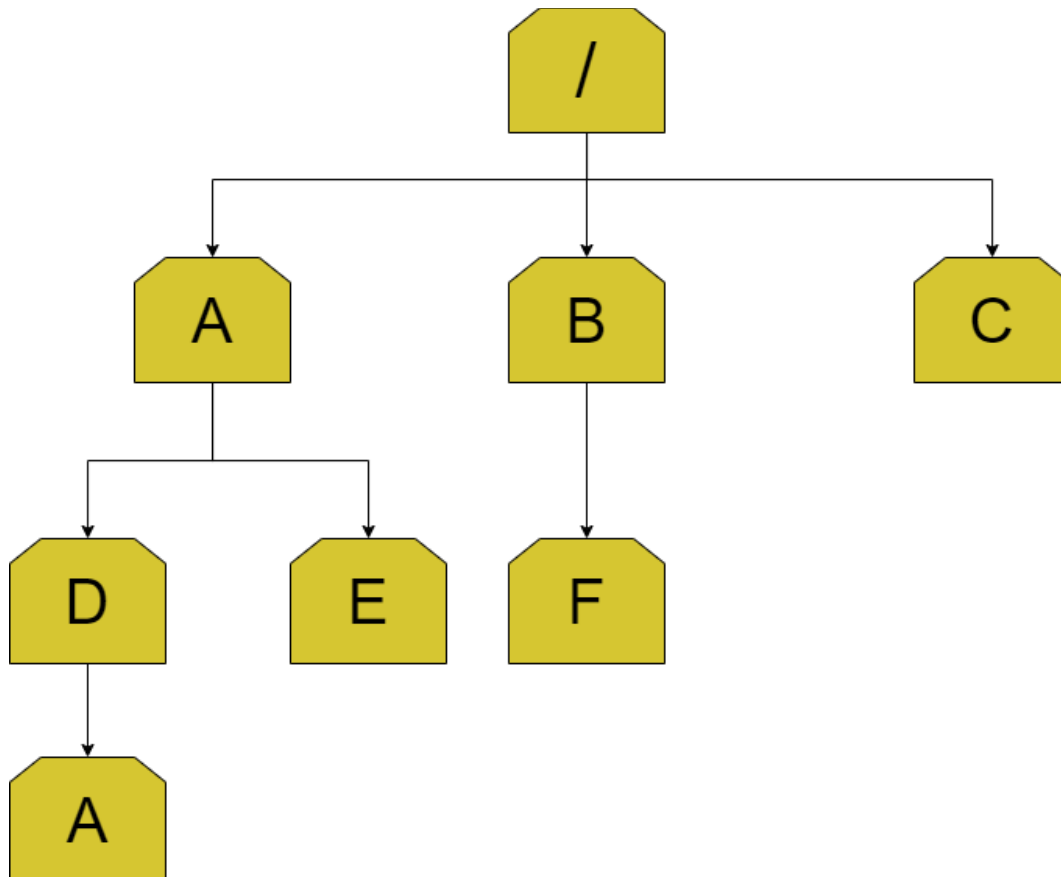
15. Hapus direktory work dan isinya dengan satu perintah

```

deanissa@DESKTOP-9U498E1:~$ cp -s ~/play/* ~/work
cp: cannot stat '/home/deanissa/play/*': No such file or directory
deanissa@DESKTOP-9U498E1:~$ ls
backup  halo.txt    latuhan2      mylife.txt    rmdirerror.txt
baru    hello.txt    list           out           surat
bye.txt kelas.txt    list_direktori.txt out.txt       urut.txt
f1      kelas1.txt   list_direktori.txt output        z
f2      kelas2.txt   mydir         pass
f3      latihan2     myerror.txt   play
deanissa@DESKTOP-9U498E1:~$ rm -rf ~/work
deanissa@DESKTOP-9U498E1:~$ ls
backup  halo.txt    latuhan2      mylife.txt    rmdirerror.txt
baru    hello.txt    list           out           surat
bye.txt kelas.txt    list_direktori.txt out.txt       urut.txt
f1      kelas1.txt   list_direktori.txt output        z
f2      kelas2.txt   mydir         pass
f3      latihan2     myerror.txt   play
deanissa@DESKTOP-9U498E1:~$

```

Pada Percobaan 1 point 3 buatlah pohon dari struktur file dan direktori



KESIMPULAN

Kesimpulan dari praktikum ini, saya telah mempelajari tentang Operasi File dan Struktur Direktori pada Sistem Operasi. Mulai dari Organisasi File, di mana sistem file pada Linux menyerupai struktur pohon dengan root sebagai titik awalnya, juga telah mempelajari tentang Direktori Standar, yang merupakan sistem file baku seperti /etc, /dev, /bin, dan lainnya, serta berbagai Tipe File, Properti File, dan Nama File yang berbeda. Selain itu, juga telah mempelajari tentang Symbolic Link dan digunakan dalam sistem file. Selain itu, telah mempelajari teknik untuk Mencari Teks dalam File, yang merupakan keterampilan yang berguna dalam mengelola dan menavigasi berbagai jenis file.

Dengan memahami konsep-konsep ini, saya telah memperluas pengetahuan saya tentang bagaimana file disimpan, diatur, dan diakses dalam sistem operasi, yang merupakan dasar penting dalam pengelolaan sistem dan pemrograman komputer.