

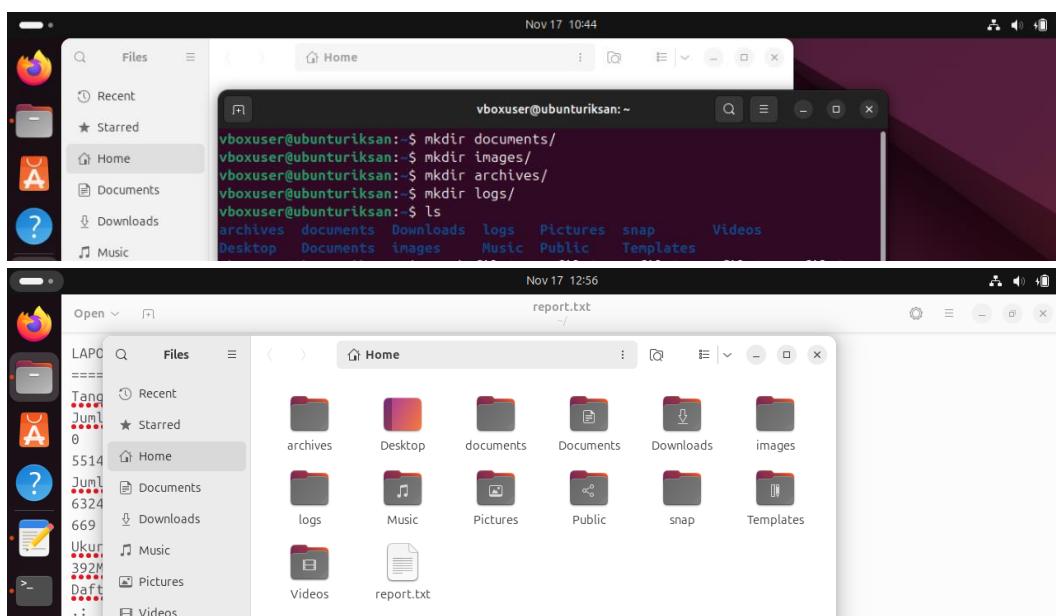
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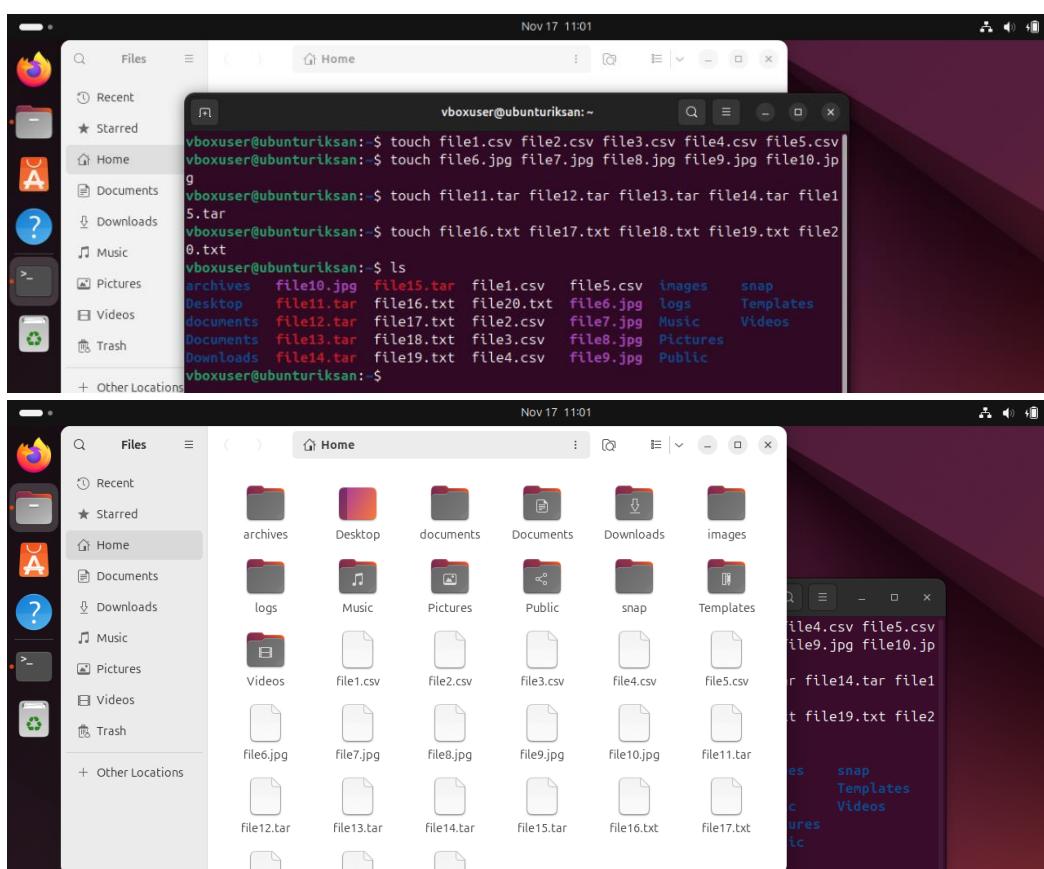
Prodi/ kelas : Sistem Informasi/ C

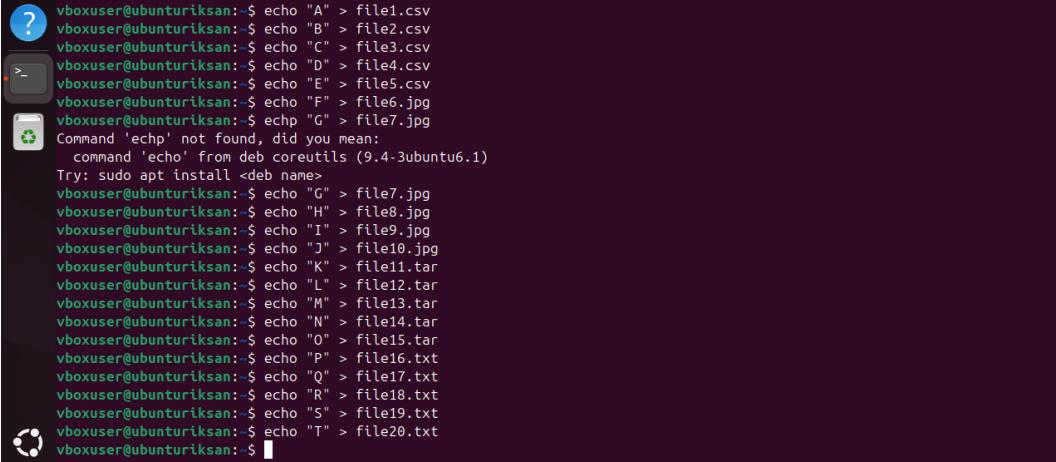
## LAPORAN PRAKTEK (Latihan 1)

1. Buat struktur direktori, gunakan mkdir untuk membuat folder.



Buat 20+ file sample, menggunakan touch (menambahkan file) dan echo (mengisi file).

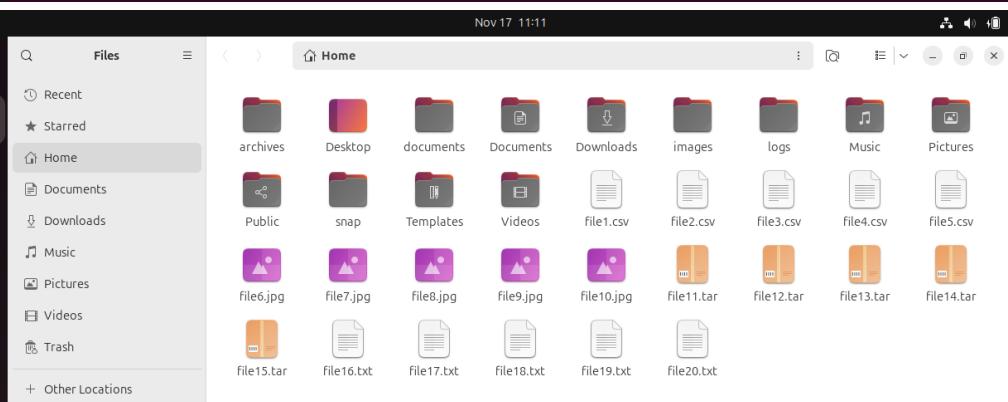




```

vboxuser@ubunturiksan: ~
vboxuser@ubunturiksan: $ echo "A" > file1.csv
vboxuser@ubunturiksan: $ echo "B" > file2.csv
vboxuser@ubunturiksan: $ echo "C" > file3.csv
vboxuser@ubunturiksan: $ echo "D" > file4.csv
vboxuser@ubunturiksan: $ echo "E" > file5.csv
vboxuser@ubunturiksan: $ echo "F" > file6.jpg
vboxuser@ubunturiksan: $ echo "G" > file7.jpg
Command 'echp' not found, did you mean:
  command 'echo' from deb coreutils (9.4-3ubuntu6.1)
Try: sudo apt install <deb name>
vboxuser@ubunturiksan: $ echo "G" > file7.jpg
vboxuser@ubunturiksan: $ echo "H" > file8.jpg
vboxuser@ubunturiksan: $ echo "I" > file9.jpg
vboxuser@ubunturiksan: $ echo "J" > file10.jpg
vboxuser@ubunturiksan: $ echo "K" > file11.tar
vboxuser@ubunturiksan: $ echo "L" > file12.tar
vboxuser@ubunturiksan: $ echo "M" > file13.tar
vboxuser@ubunturiksan: $ echo "N" > file14.tar
vboxuser@ubunturiksan: $ echo "O" > file15.tar
vboxuser@ubunturiksan: $ echo "P" > file16.txt
vboxuser@ubunturiksan: $ echo "Q" > file17.txt
vboxuser@ubunturiksan: $ echo "R" > file18.txt
vboxuser@ubunturiksan: $ echo "S" > file19.txt
vboxuser@ubunturiksan: $ echo "T" > file20.txt
vboxuser@ubunturiksan: ~

```



The file manager shows the Home directory with files organized into folders based on their extensions:

- archives**: file10.tar, file11.tar, file12.tar, file13.tar, file14.tar, file15.tar
- Desktop**: file6.jpg, file7.jpg, file8.jpg, file9.jpg, file10.jpg
- documents**: file1.csv, file2.csv, file3.csv, file4.csv, file5.csv
- Documents**: file16.txt, file17.txt, file18.txt, file19.txt, file20.txt
- Downloads**: file11.tar, file12.tar, file13.tar, file14.tar
- images**: file6.jpg, file7.jpg, file8.jpg, file9.jpg, file10.jpg
- logs**: file11.tar, file12.tar, file13.tar, file14.tar
- Music**: file16.txt, file17.txt, file18.txt, file19.txt, file20.txt
- Pictures**: file10.jpg, file11.tar, file12.tar, file13.tar, file14.tar

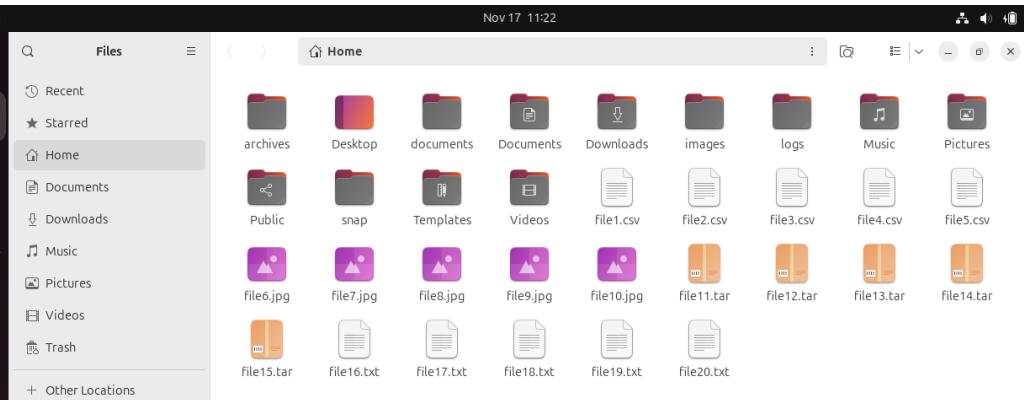
- Script organisasi file, tulis script yang menggunakan find, mv dan cp untuk memindahkan file ke folder yang sesuai berdasarkan ekstensi.



```

vboxuser@ubunturiksan: ~
vboxuser@ubunturiksan: $ find file1.csv file2.csv file3.csv file4.csv file5.csv file6.jpg file7.jpg file8.jpg file9.jpg
file10.jpg file11.tar file12.tar file13.tar file14.tar file15.tar file16.txt file17.txt file18.txt file19.txt file20.txt
file1.csv
file2.csv
file3.csv
file4.csv
file5.csv
file6.jpg
file7.jpg
file8.jpg
file9.jpg
file10.jpg
file11.tar
file12.tar
file13.tar
file14.tar
file15.tar
file16.txt
file17.txt
file18.txt
file19.txt
file20.txt
vboxuser@ubunturiksan: ~

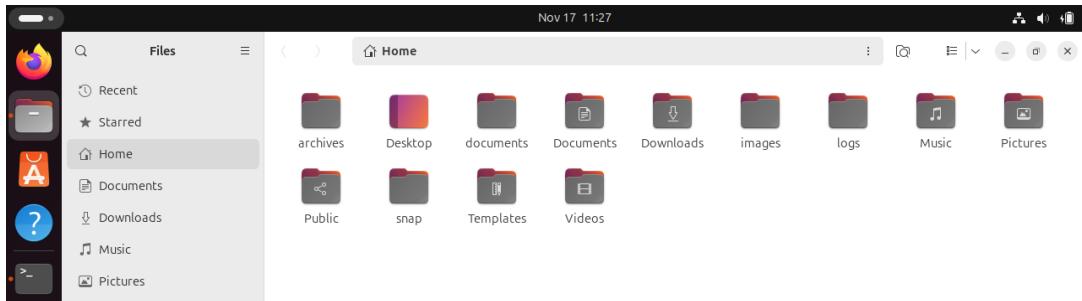
```



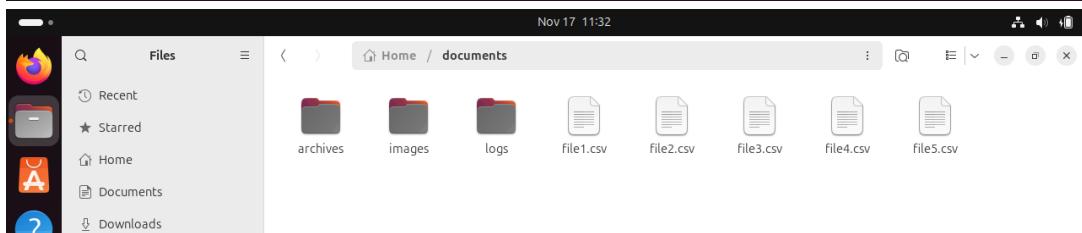
The file manager shows the Home directory with files correctly grouped by extension:

- archives**: file11.tar, file12.tar, file13.tar, file14.tar
- Desktop**: file6.jpg, file7.jpg, file8.jpg, file9.jpg, file10.jpg
- documents**: file1.csv, file2.csv, file3.csv, file4.csv, file5.csv
- Documents**: file16.txt, file17.txt, file18.txt, file19.txt, file20.txt
- Downloads**: file11.tar, file12.tar, file13.tar, file14.tar
- images**: file6.jpg, file7.jpg, file8.jpg, file9.jpg, file10.jpg
- logs**: file11.tar, file12.tar, file13.tar, file14.tar
- Music**: file16.txt, file17.txt, file18.txt, file19.txt, file20.txt
- Pictures**: file11.tar, file12.tar, file13.tar, file14.tar

```
title20.txt
vboxuser@ubunturiksan:~$ mv file1.csv file2.csv file3.csv file4.csv file5.csv ./documents
vboxuser@ubunturiksan:~$ mv file6.jpg file7.jpg file8.jpg file9.jpg file10.jpg ./images
vboxuser@ubunturiksan:~$ mv file11.tar file12.tar file13.tar file14.tar file15.tar ./archives
vboxuser@ubunturiksan:~$ mv file16.txt file17.txt file18.txt file19.txt file20.txt ./logs
vboxuser@ubunturiksan:~$
```



```
vboxuser@ubunturiksan:~$ mv file10.txt file17.txt file18.txt file19.txt file20.txt ./logs
vboxuser@ubunturiksan:~$ cp -r images/ documents/
vboxuser@ubunturiksan:~$ cp -r archives/ documents/
vboxuser@ubunturiksan:~$ cp -r logs/ documents/
vboxuser@ubunturiksan:~$
```



3. **Fungsi pencarian,** Implementasikan pencarian file menggunakan find dan grep buat fungsi untuk mencari berdasarkan nama, ukuran, dan konten.

```
vboxuser@ubunturiksan:~$ find ./logs -type f -name "*.txt"
./logs/file18.txt
./logs/file20.txt
./logs/file19.txt
./logs/file17.txt
./logs/file16.txt
vboxuser@ubunturiksan:~$
```

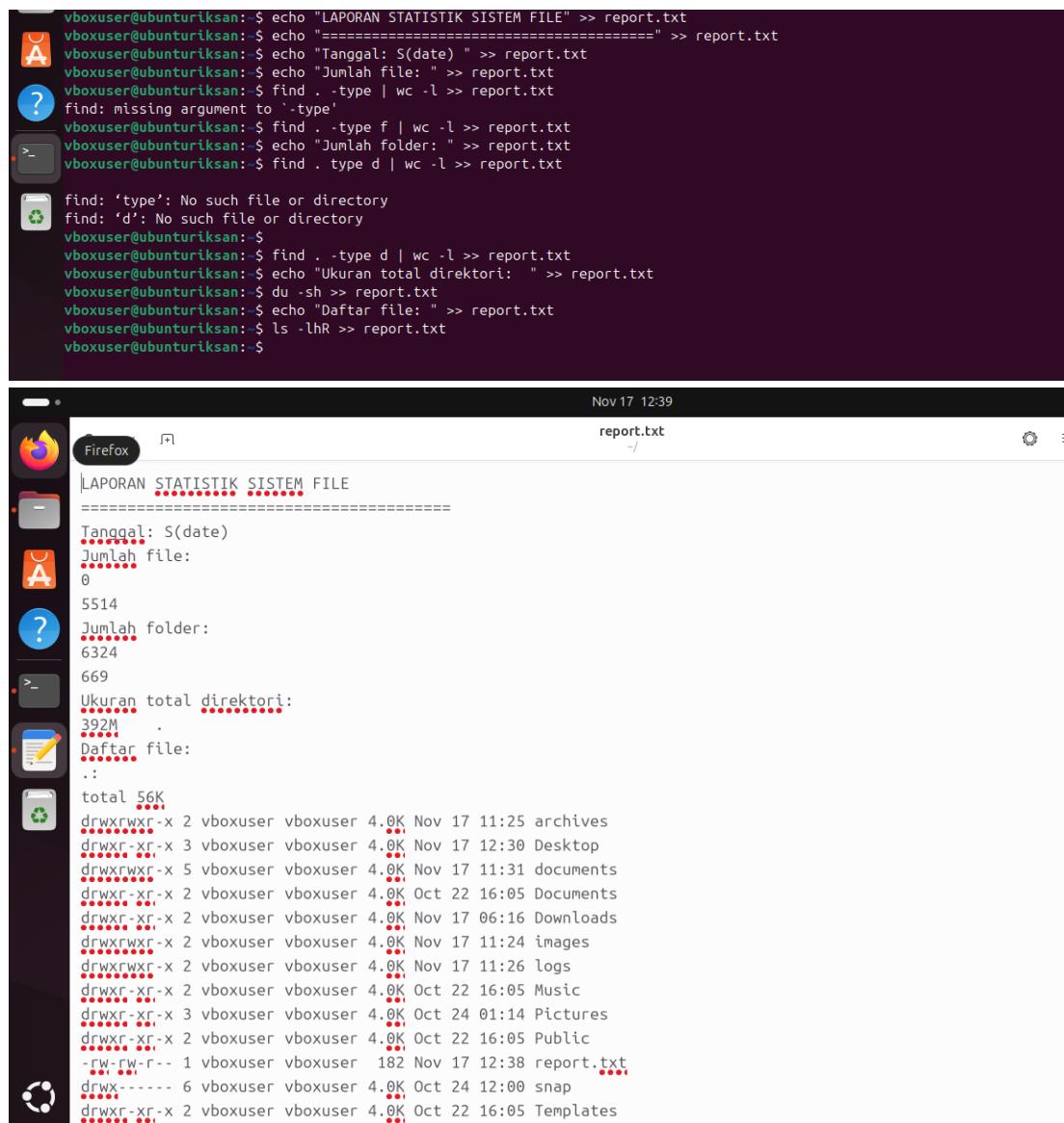
  

```
./logs/file10.txt
vboxuser@ubunturiksan:~$ find ./images -type f -size -58c -name "*.jpg"
./images/file9.jpg
./images/file6.jpg
./images/file10.jpg
./images/file8.jpg
./images/file7.jpg
vboxuser@ubunturiksan:~$
```

```
vboxuser@ubunturiksan:~$ find ./logs -type f -name "*.txt" -exec grep -H "S" {} \;
./logs/file19.txt:S
vboxuser@ubunturiksan:~$
```

4. Generate laporan, gunakan ls, wc, du dan piping untuk membuat laporan statistic file sistem. Output ke file report.txt.



The terminal window shows the command history for generating a system statistics report:

```
vboxuser@ubunturiksan:~$ echo "LAPORAN STATISTIK SISTEM FILE" >> report.txt
vboxuser@ubunturiksan:~$ echo "===== " >> report.txt
vboxuser@ubunturiksan:~$ echo "Tanggal: $(date)" >> report.txt
vboxuser@ubunturiksan:~$ echo "Jumlah file: " >> report.txt
vboxuser@ubunturiksan:~$ find . -type f | wc -l >> report.txt
find: missing argument to `‐type'
vboxuser@ubunturiksan:~$ find . -type f | wc -l >> report.txt
vboxuser@ubunturiksan:~$ echo "Jumlah folder: " >> report.txt
vboxuser@ubunturiksan:~$ find . -type d | wc -l >> report.txt
find: 'type': No such file or directory
find: 'd': No such file or directory
vboxuser@ubunturiksan:~$ find . -type d | wc -l >> report.txt
vboxuser@ubunturiksan:~$ echo "Ukuran total direktori: " >> report.txt
vboxuser@ubunturiksan:~$ du -sh >> report.txt
vboxuser@ubunturiksan:~$ echo "Daftar file: " >> report.txt
vboxuser@ubunturiksan:~$ ls -lhR >> report.txt
vboxuser@ubunturiksan:~$
```

The Firefox browser window displays the contents of the generated report.txt file:

```
LAPORAN STATISTIK SISTEM FILE
=====
Tanggal: S(date)
Jumlah file:
0
5514
Jumlah folder:
6324
669
Ukuran total direktori:
392M .
Daftar file:
.:
total 56K
drwxrwxr-x 2 vboxuser vboxuser 4.0K Nov 17 11:25 archives
drwxr-xr-x 3 vboxuser vboxuser 4.0K Nov 17 12:30 Desktop
drwxrwxr-x 5 vboxuser vboxuser 4.0K Nov 17 11:31 documents
drwxr-xr-x 2 vboxuser vboxuser 4.0K Oct 22 16:05 Documents
drwxr-xr-x 2 vboxuser vboxuser 4.0K Nov 17 06:16 Downloads
drwxrwxr-x 2 vboxuser vboxuser 4.0K Nov 17 11:24 images
drwxrwxr-x 2 vboxuser vboxuser 4.0K Nov 17 11:26 logs
drwxr-xr-x 3 vboxuser vboxuser 4.0K Oct 22 16:05 Music
drwxr-xr-x 3 vboxuser vboxuser 4.0K Oct 24 01:14 Pictures
drwxr-xr-x 2 vboxuser vboxuser 4.0K Oct 22 16:05 Public
-rw-rw-r-- 1 vboxuser vboxuser 182 Nov 17 12:38 report.txt
drwx----- 6 vboxuser vboxuser 4.0K Oct 24 12:00 snap
drwxr-xr-x 2 vboxuser vboxuser 4.0K Oct 22 16:05 Templates
```

