

LAPORAN PERCOBAAN PRAKTIKUM KE-3

SISTEM OPERASI

Disusun oleh:

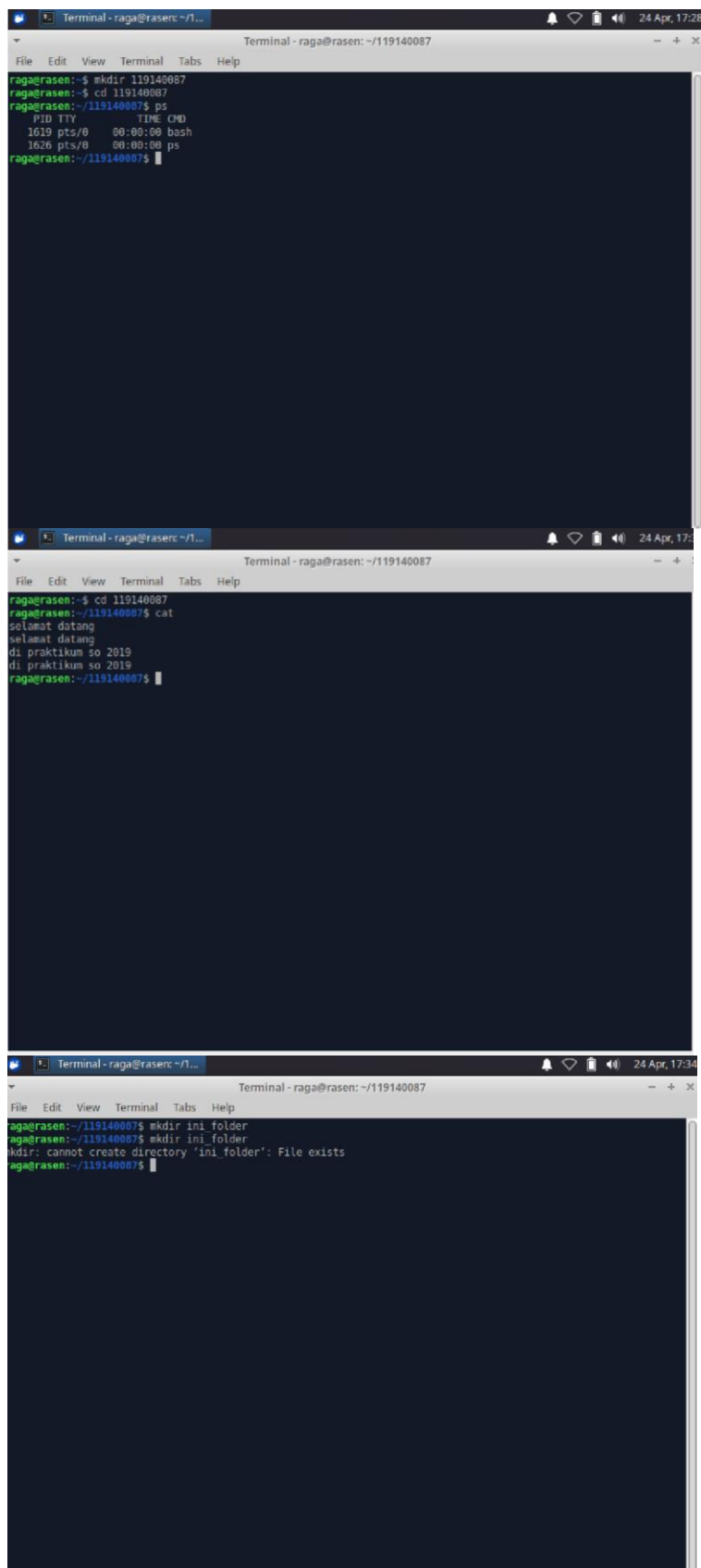
Perdana Raga Winata | 119140087

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2021

Percobaan 1: File Descriptor



The image displays three sequential screenshots of a Linux terminal window, showing the execution of various commands related to file descriptors and directory creation.

Terminal Screenshot 1:

```
Terminal - raga@rasen: ~/119140087
File Edit View Terminal Tabs Help
raga@rasen:~$ mkdir 119140087
raga@rasen:~$ cd 119140087
raga@rasen:~/119140087$ ps
  PID TTY          TIME CMD
 1619 pts/0    00:00:00 bash
 1626 pts/0    00:00:00 ps
raga@rasen:~/119140087$
```

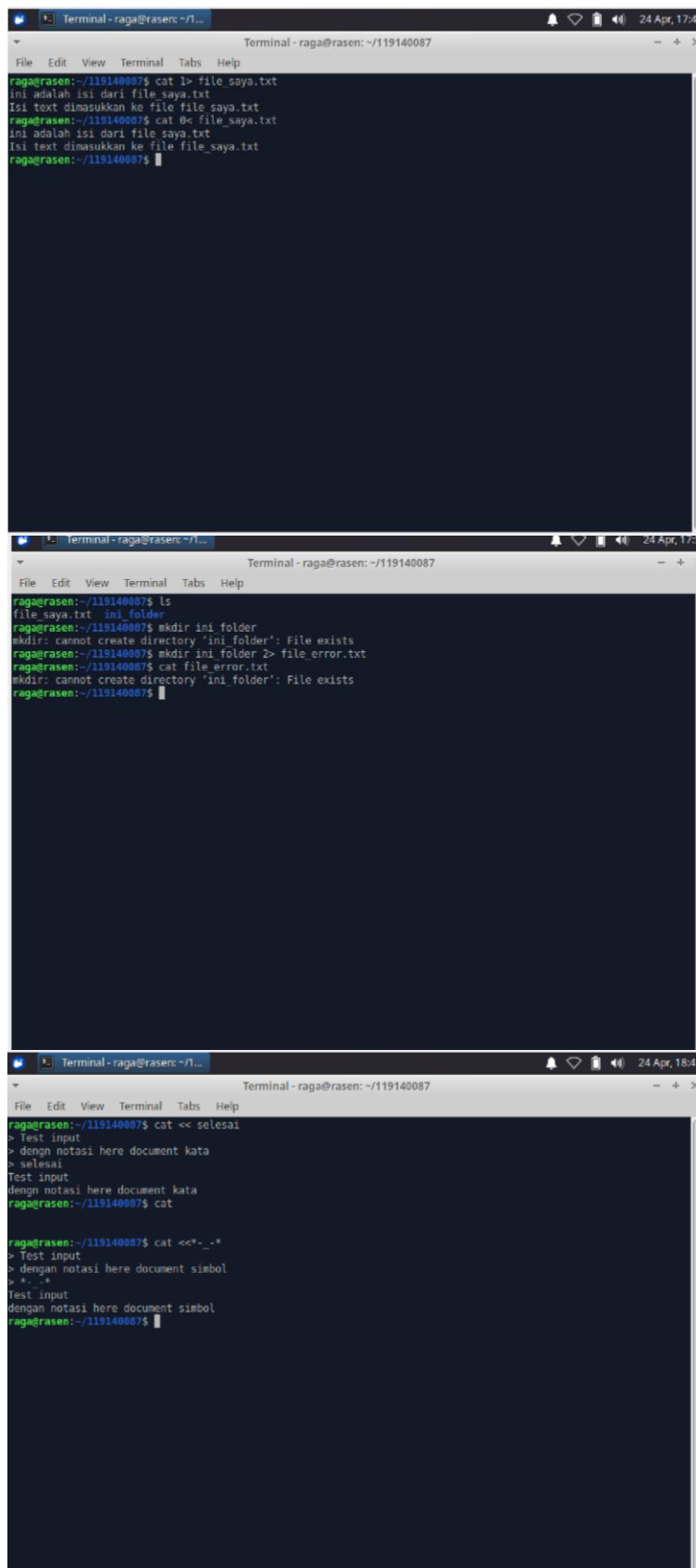
Terminal Screenshot 2:

```
Terminal - raga@rasen: ~/119140087
File Edit View Terminal Tabs Help
raga@rasen:~$ cd 119140087
raga@rasen:~/119140087$ cat
selamat datang
di praktikum so 2019
di praktikum so 2019
raga@rasen:~/119140087$
```

Terminal Screenshot 3:

```
Terminal - raga@rasen: ~/119140087
File Edit View Terminal Tabs Help
aga@rasen:~/119140087$ mkdir ini_folder
aga@rasen:~/119140087$ mkdir ini_folder
mkdir: cannot create directory 'ini_folder': File exists
aga@rasen:~/119140087$
```

Percobaan 2: Redirection



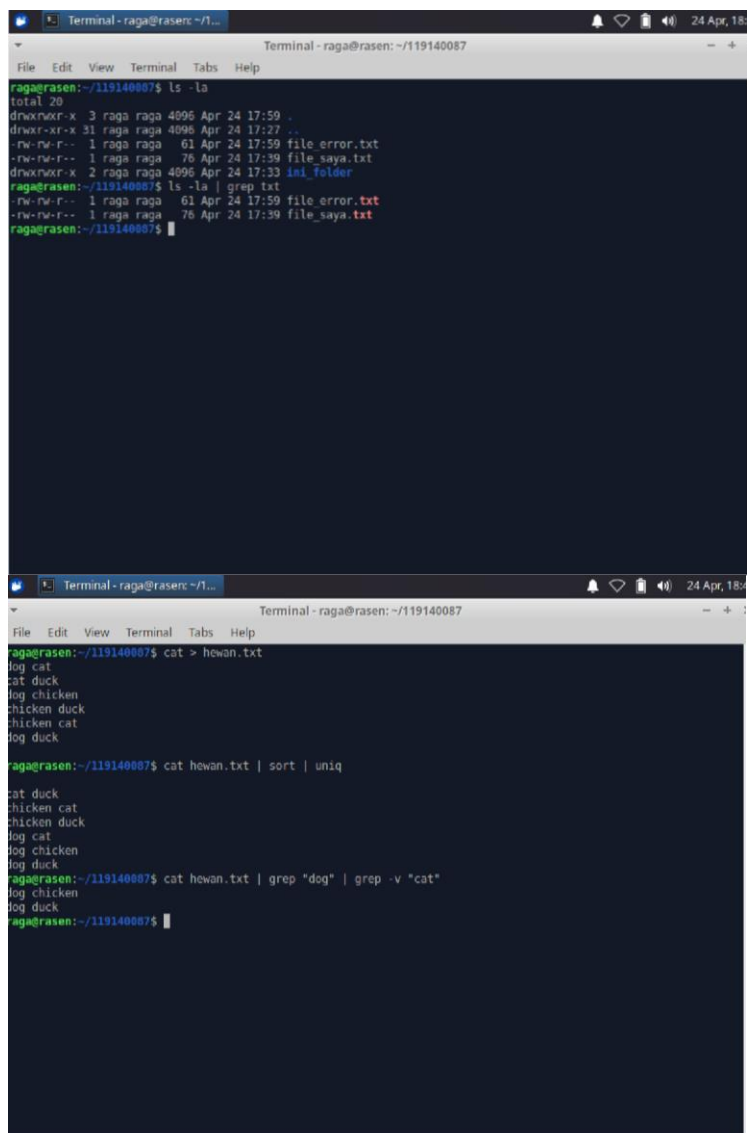
The image displays three sequential screenshots of a terminal window, illustrating various file redirection techniques in Linux. The terminal title bar indicates the user is 'raga' on a system named 'rasen', with the current directory being '~/.119140087'.

First Screenshot: The user creates a file named 'file_saya.txt' using the command `cat > file_saya.txt`. They then verify its contents with `cat file_saya.txt`, which outputs 'ini adalah isi dari file saya.txt'. Next, they append text to the same file using `cat >> file_saya.txt`, and verify again with `cat file_saya.txt`, showing both lines of text.

Second Screenshot: The user lists the directory contents with `ls`, showing 'file_saya.txt' and 'ini folder'. They attempt to create a directory named 'ini folder' with `mkdir ini folder`, which fails with the message 'mkdir: cannot create directory 'ini folder': File exists'. They then create a file named 'file_error.txt' with `mkdir ini folder 2> file_error.txt` and verify its contents with `cat file_error.txt`, which outputs the error message.

Third Screenshot: The user demonstrates input redirection. They use `cat << selesai` to read from the standard input stream, which is then terminated by pressing Ctrl+D. They repeat this with a multi-line input. Then, they use `cat <<'_*'` to read from a string literal, also terminated by Ctrl+D.

Percobaan 3: Pipeline dan Filter



The image shows two screenshots of a terminal window. The top screenshot shows the output of the `ls -la` command, listing files in the current directory. The bottom screenshot shows a series of commands being executed to create a file, add content, and use pipeline and filter commands to process the data.

```
Terminal - raga@rasen: ~/119140087
File Edit View Terminal Tabs Help
raga@rasen:~/119140087$ ls -la
total 20
drwxr-xr-x 3 raga raga 4096 Apr 24 17:59 .
drwxr-xr-x 31 raga raga 4096 Apr 24 17:27 ..
-rw-rw-r-- 1 raga raga 61 Apr 24 17:59 file_error.txt
-rw-rw-r-- 1 raga raga 76 Apr 24 17:39 file_saya.txt
drwxr-xr-x 2 raga raga 4096 Apr 24 17:33 lml_folder
raga@rasen:~/119140087$ ls -la | grep txt
-rw-rw-r-- 1 raga raga 61 Apr 24 17:59 file_error.txt
-rw-rw-r-- 1 raga raga 76 Apr 24 17:39 file_saya.txt
raga@rasen:~/119140087$

Terminal - raga@rasen: ~/119140087
File Edit View Terminal Tabs Help
raga@rasen:~/119140087$ cat > hewan.txt
log cat
cat duck
log chicken
chicken duck
chicken cat
log duck
raga@rasen:~/119140087$ cat hewan.txt | sort | uniq
cat duck
chicken cat
chicken duck
log cat
log chicken
log duck
raga@rasen:~/119140087$ cat hewan.txt | grep "dog" | grep -v "cat"
log chicken
log duck
raga@rasen:~/119140087$
```