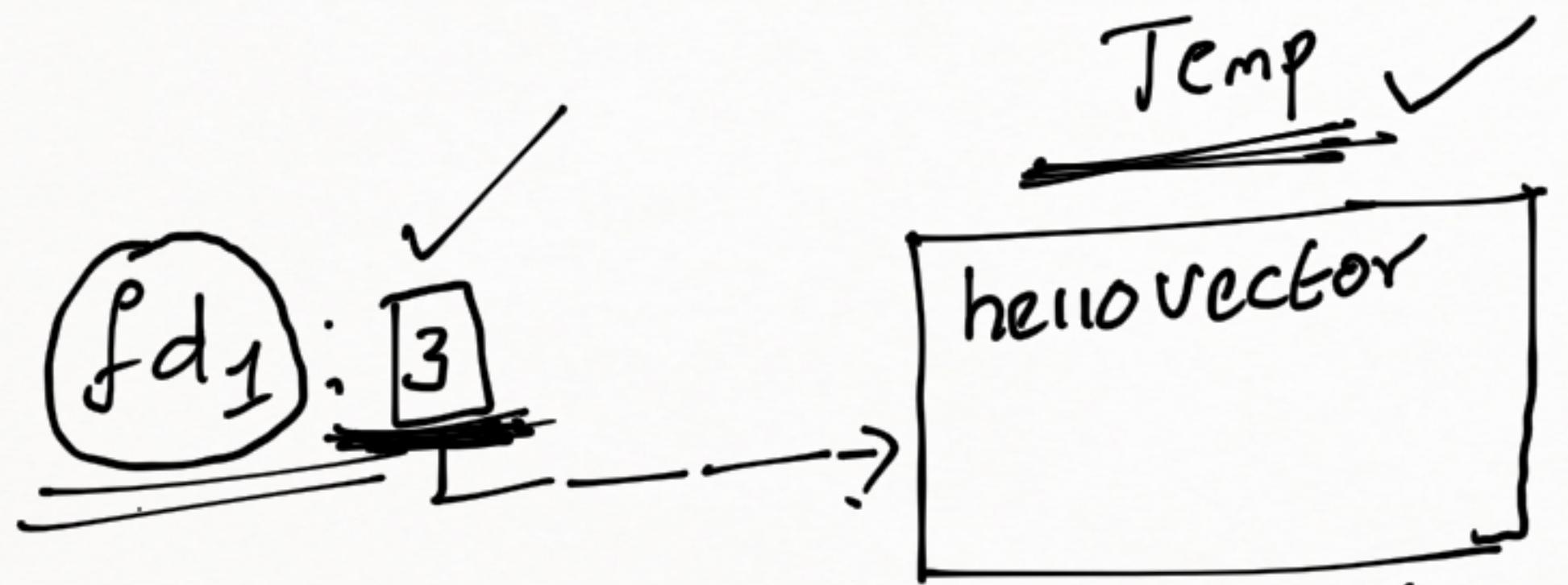


Date: 11-11-21

Dup & Dup₂

↳ Duplicating file descriptors



fd₂ = dup(fd₁)
↳ (oldfd)

fd₂ (4)

fd₁ & fd₂
(3) & (4)

↳ Both are duplicated

write(fd₁, "hello", 5) each other
write(fd₂, "vector", 6)

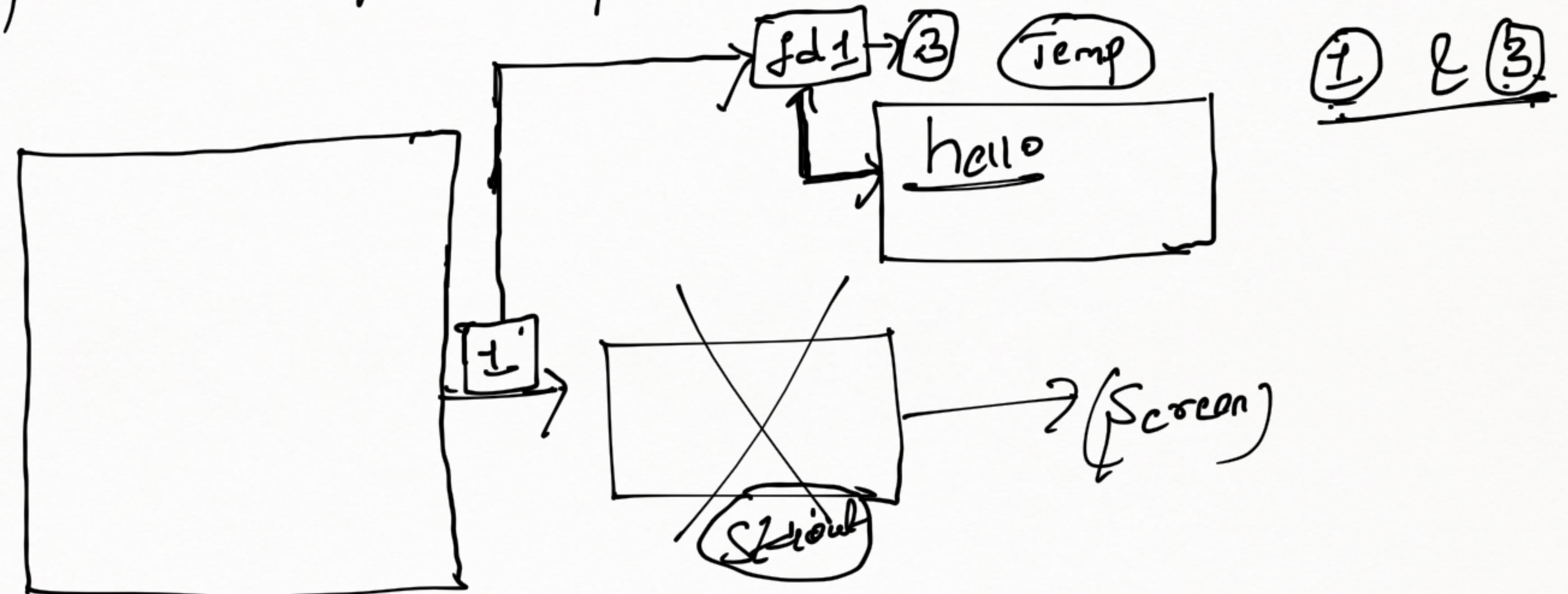
→

`fd1 = open("Temp", O_WRONLY | O_CREAT | O_TRUNC, 0644)`

close(1);

dup(fd1)

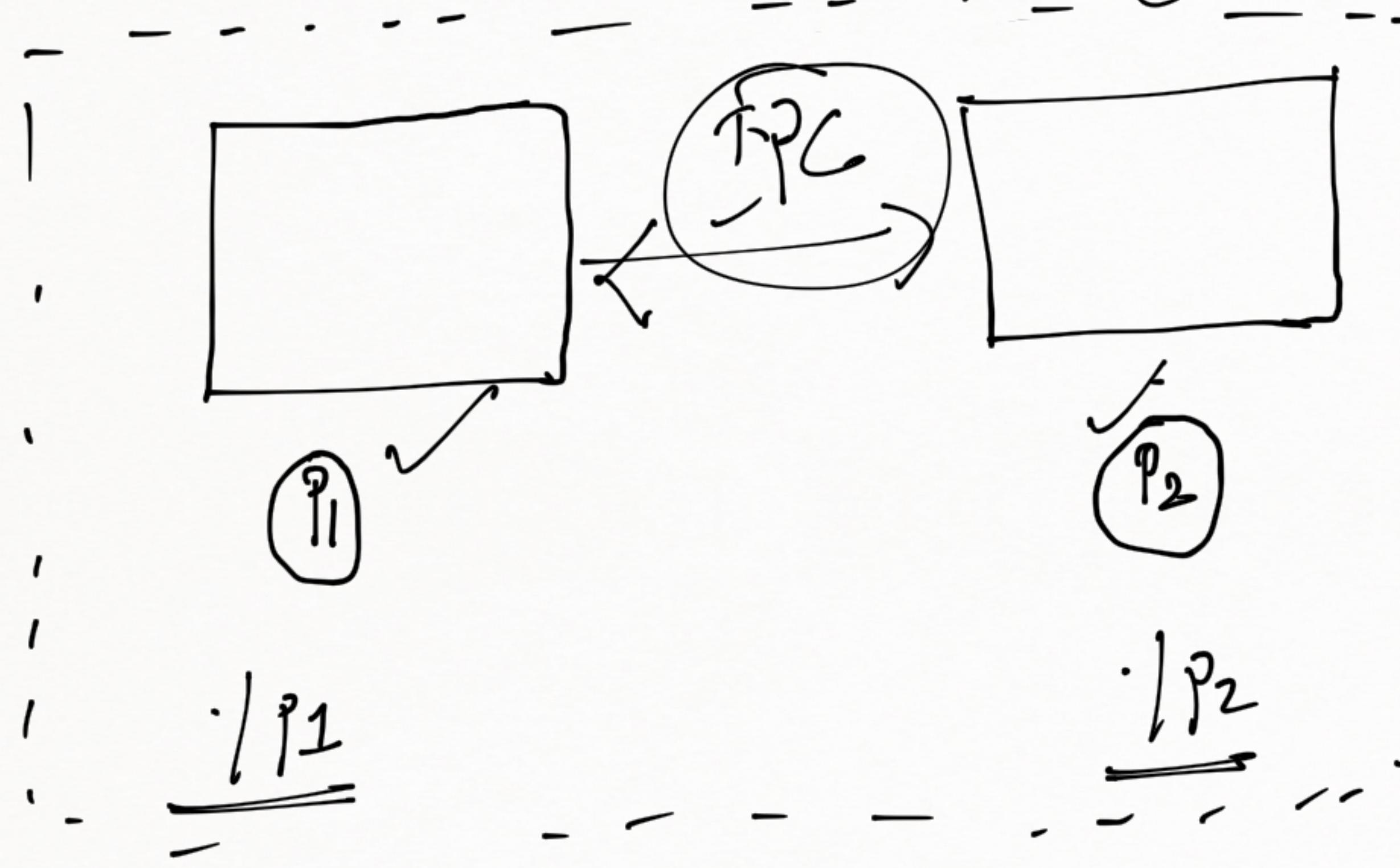
printf("Hello\n");



$\rightarrow fd_1 = dup_2(fd_1, 9)$ $\xrightarrow{\quad}$ $(fd_1(\text{old } fd) \text{ is duplicated after a number } 9)$

\rightarrow If this number is already in rk then it is closed there and duplicated with fd_1

IPC (Inter process communication)



⇒ In general one process
can not access other process data.

⇒ OS will not allow
one process to access the other
process data.

⇒ Since every process running
in its own address space so
accessing data by one process
not allowed.

→ If there is a requirement that two processes want to share data then there is a proper communication channel required

→ IPC is one of the channel

