## **Exercice 2**

## **Disclaimer**

Every code has been written using what Dr. José Alfredo Alvarez Aldana gives as examples for shared memory and fork.

## What was used

Many choices were offered, but I used shared memory with fork() because it was easier to understand for me.

Everything could be written in a main function, but it was too messy for my own understanding. I created another function called createSharedMem() which is actually just the **mapping** of the shared memory.

Since fork() has been used, a process ID needs to be created. And the whole code is just going back and forth between the child and parent process.

## Running the code

Open the terminal and just run this code normally.

```
gcc -o shared_mem shared_mem.c
./shared_mem
# input your message
# to end the chat, press CTRL + C
```

However, as you might notice, the first iteration or the first message sent is not properly executed.

I do not understand why it was executing like this, I tried to arrange it many times without any success.

# What is executed

Parent wrote: Child wrote: hello

Parent read: hello

# What is expecting Child wrote: hello Parent read: hello

Without taking into account this unexpectly first message, the chat application is working quite fine.