## 2021510010 - Çağrı AYDIN - Lab 7

```
Welcome to fish, the friendly interactive shell
Type help for instructions on how to use fish
[13:48:06] deuceng@debian /home/deuceng/Desktop
gcc aio read write.c -o aio read write out
[13:48:37] deuceng@debian /home/deuceng/Desktop
> ./aio_read_write_out
okan
Reading is finished
Mriting is finished
[13:48:44] deuceng@debian /home/deuceng/Desktop
gcc multiprocess aio.c -o multiprocess_aio_out
multiprocess_aio.c: In function 'main':
multiprocess_aio.c:88:19: warning: implicit declaration of function 'wait' [-Wimplicit-function-declaration]
               pidwait = wait(&child_status); // wait for a child process to stop or terminate
[13:49:19] deuceng@debian /home/deuceng/Desktop
  ./multiprocess_aio_out
Error at aio_return()
fatih
Writing is finished
[13:49:29] deuceng@debian /home/deuceng/Desktop
```

As< part of this task, it is required to compile, run, and evaluate the outputs of aio\_read\_write.c and multiprocess\_aio.c. The aio\_read\_write.c file showcases asynchronous file read and write operations, effectively demonstrating their successful execution. Conversely, the multiprocess\_aio.c file explores asynchronous I/O within a multi-process environment. Unfortunately, the lack of a proper implementation for the wait() function results in warnings, and an error occurs during the execution of the aio\_return() function. These results underscore both the performance benefits of asynchronous I/O and the potential challenges or errors that can arise from incomplete or incorrect setups.