Assignment 4

➔ The 2 files are **P.c** & **C.c** as required by the problem statement.
➔ The 2 system calls are **writer()** and **reader().**
➔ **P.c** reads 8 bytes from **/dev/urandom** which are passed to writer().
➔ **writer()** system call accepts long int (8 bytes).
➔ **writer()** uses **kmalloc()** to store these bytes and returns the address as a long pointer.
➔ **P.c** sends this address to **C.c** in a message queue.
➔ **C.c** calls and passes this long pointer to reader system call which reads the dynamically allocated bytes. Then **reader()** frees the allocated memory using **kfree()**.

Instruction to Run:

1. run **make** in terminal.
2. run **./P** for the producer that calls writer().
3. run **./C** for the consumer that calls reader().