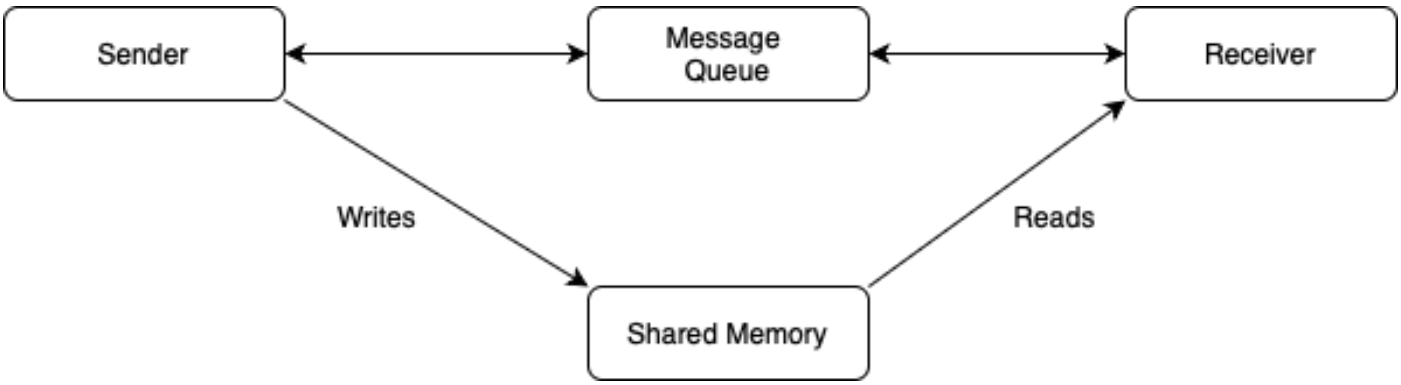
Design of Sender and Receiver

The process of Inter process communication using shared memory and message queue can effectively transfer files between two processes. Shared memory allows data to be transferred fast, by allowing both processes to read and write the same memory space. While using the message queue to ensure synchronization by sending messages to indicate when the data is ready. The diagram below shows a visualization of Inter process communication.



In this project the sender process reads chunks of data from an input file then it writes them to the shared memory and sends a message to the queue. The receiver process waits for the message that the data is ready to be read. Then it reads the data from the shared memory and writes it to an output file. This process repeats until the entire file is completely transferred.