1. What is the difference between synchronous and asynchronous communication?

The difference between synchronous and asynchronous communication is ones ability to execute tasks concurrently. Synchronous communication awaits for the entire operation to finish before moving onto the next one. As in sending and receiving, the function will wait till it receives a return, meanwhile asynchronous communication will continue executing other functions, as it does not wait for the receive signal back.

2. Do you prefer socket reads in a receive thread or do you prefer both socket read and write to be in the main() function? Why?

I prefer handling socket reads in a separate receive thread, as the server can handle multiple clients concurrently without blocking the main thread that can manage connections and process messages from the queue.

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