

Assignment II: Practice Question

Multithreaded Client/Server program (TCP)

You are supposed to write a chat and file transfer program. The program has two parts, of which first is the server program waiting for the connections from the client. The Server should be waiting for connections in **port number 444**, to which the client should request for initiating a TCP connection. After establishing the connection successfully, the client should be able to send messages to the server. The client would be requesting the server to initiate files transfer by using the command "Send FILENAME". On receiving the command, server will be checking for the presence of the file "FILENAME" in home directory of the program. Once the file is found, server will be initiating another connection in **port number 555** of the client, and the file transfer would be done. The connection would be closed on of the file transfer. If the client request for multiple files, one after the other "Send FILENAME1", "Send FILENAME2", "Send FILENAME3" or by command "Send FILENAME1, FILENAME2, FILENAME3" the server would be queuing them and the file would be transferred, one after the other without closing the connection. Once all the files are transferred, the connection would be closed.