

CSE 244
Final Project
Multiple File Sharing Server
Due on May 29th 23:59

you are required to write two programs

1 ***fileShareServer*** <*port number*>

receives clients and enables them to transfer files from server-client and client-client. While doing this it also displays the time (in milliseconds) and client id when a client is connected, and displays the time and client request. When receive a ^C signal send kill signals to the clients and terminates respectively

the client program on the hand should be executed as

2 ***client*** <*ip address*>

this should result the client-server connection (if the server is available) and a command line with the following commands

listLocal to list the local files in the directory client program started

listServer to list the files in the current scope of the server-client

lsClients lists the clients currently connected to the server with their respective clientids

sendFile <*filename*> <*clientid*> send the file <*filename*> (if file exists) from local directory to the client with client id *clientid*. If no client id is given the file is send to the servers local directory.

help displays the available comments and their usage

For each client at least one execution should be created. All clients are required to use (share) only 1 communication channel (one port). When the client is killed by a ^C , it should not leave before completing the last request and informing the server about its termination. Test your code with multiple clients sending different requests at the same time.