When a client connects to the server.

Step 1: run server first.

ServerTCP:

ClientTCP:

Case 1: Input “localhost”

This is when Client config is set to “localhost”.the server first reads a one-line command from the client.

In this case, we pass in “index” from ClientTCP.

The command can be the string "index". In this case, the server responds by sending a list of names of all the files that are available on the server.

List of names of files are presented.

Case 2: Input “localhost test1.txt”

Or the command can be of the form "get <file>", where <file> is a file name. The server checks whether the requested file actually exists. If so, it first sends the word "ok" as a message to the client. Then it sends the contents of the file and closes the connection. Otherwise, it sends the word "error" to the client and closes the connection.

Sub case a) File already exists. Input “localhost test1.txt”

Sub case b) exit with code 0, copy the file from server to client. Input “localhost test2.txt”

Sub case c) file not found on server. Input “localhost test.txt”

Case 3: No server running, but run client.

Error message “unable to make connection at “localhost””