PROGRAM 1:

This is a programming assignment in Java.

Write a simple HTTP client and a separate HTTP server application in Java. As soon as the client connects, the server will send a html or text file which is between 5 to 10K bytes in size. Close the connection once the file is transmitted.

- Make sure the files are named differently on the client and server side.
- You must use the Java socket class.
- DO NOT implement the server handling multiple requests at the same time (multi-threading).
- Implement output messages that show the flow through each method (e.g. "Connected to server" or "Receiving message from server", etc)

Submit: Source code and sample output of the file transfer (both client and server)

1. Create the Java code and compile it.

2. Run it on your own machine with a port number specified in the command line For example, type: java MyServer 25000).
   If a service is already running on the port you choose, you will get a BindException or a similar exception. USE THE PORTS YOU WERE ASSIGNED.

3. In another window, use Telnet as the client program by typing a command telnet localhost 25000 . This will test that the Server application is working.

4. Now test using the Java client by typing: java MyClient 25000

HINT:

To send and receive data, client and server can use Java streams - e.g. if the data is in ASCII text form, you can read messages with a BufferedReader using readLine() and write messages with a PrintStream using println() for example.