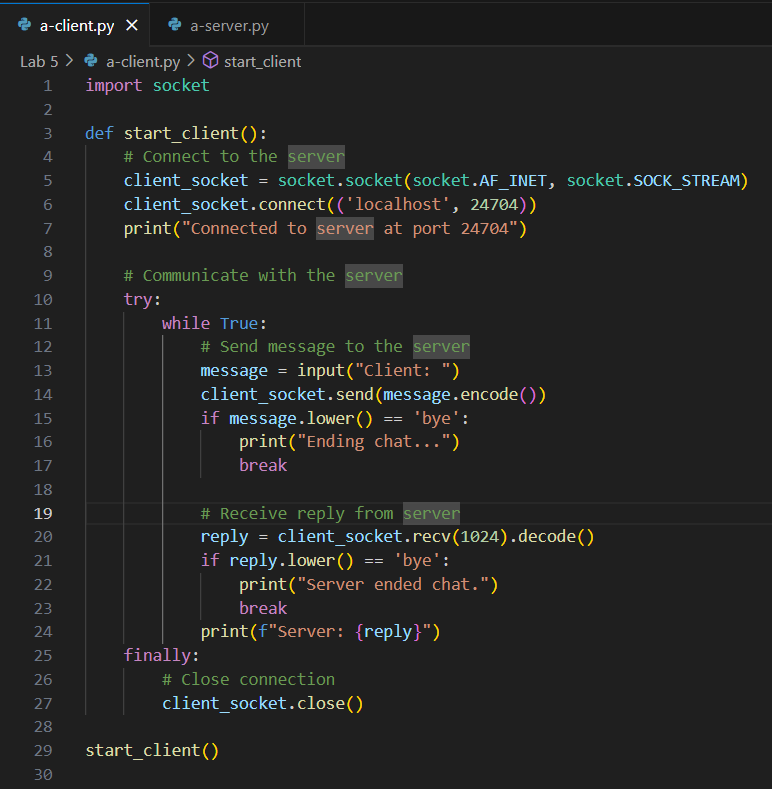
1. a) Create a socket program for Client-Server based chat application.

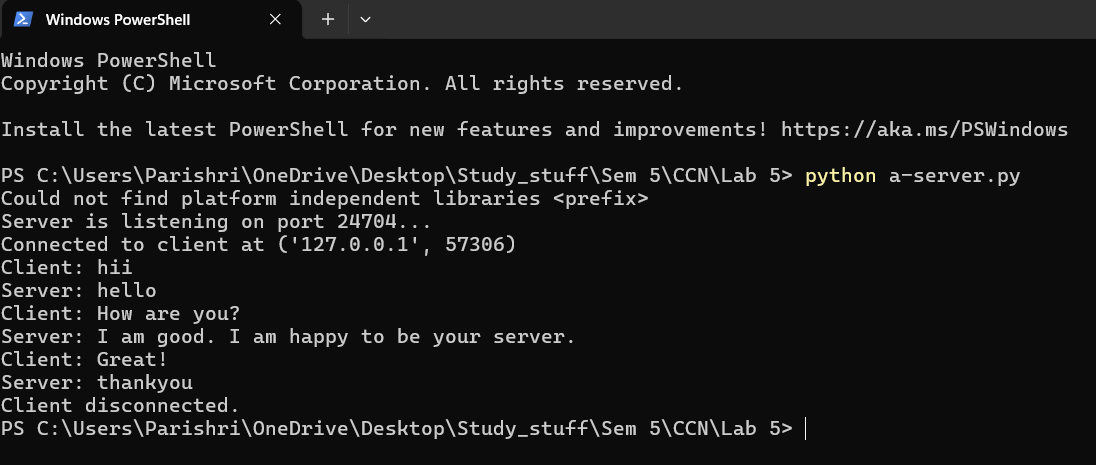
Code for server:



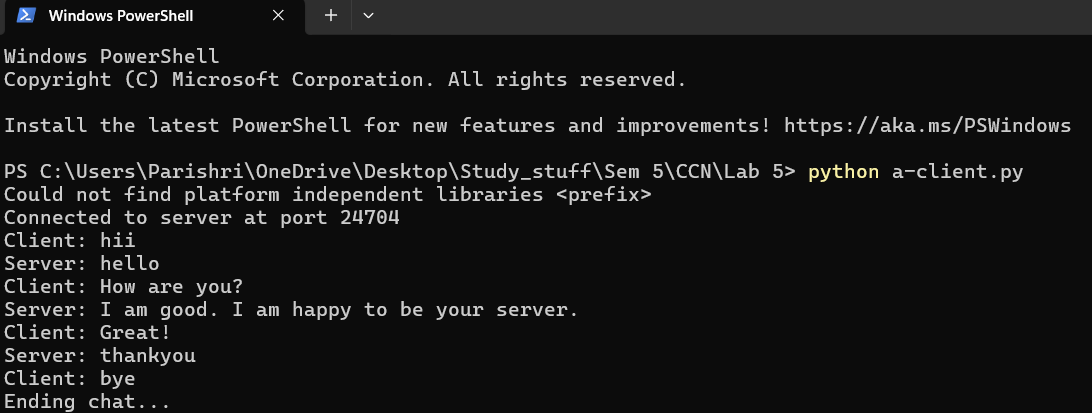
Code for client:



Output for server :

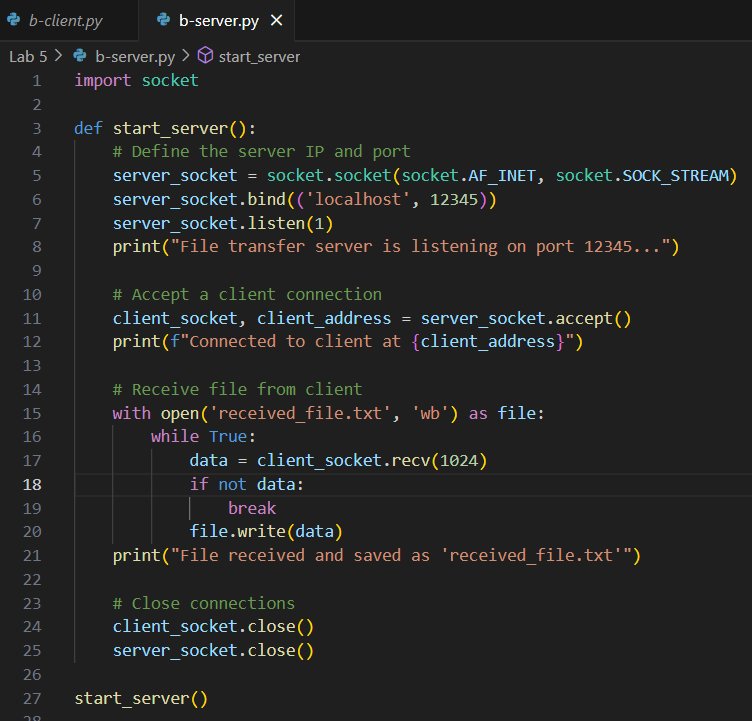


Output for client :

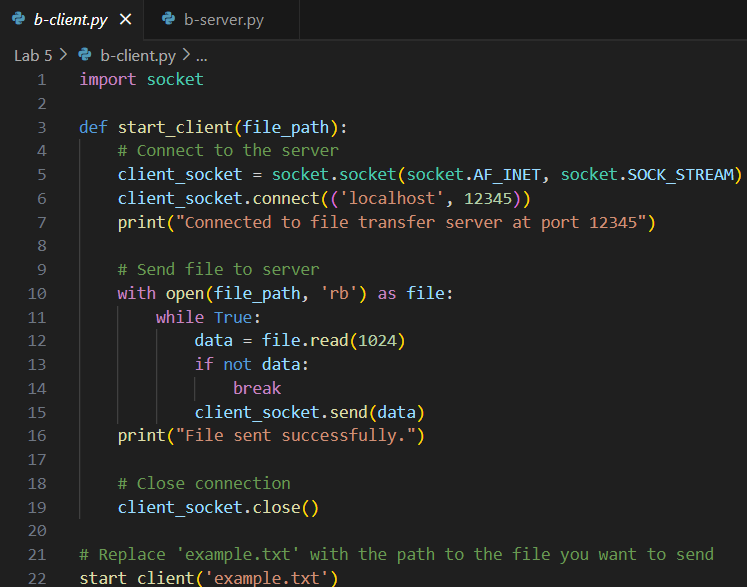


b) Create a file transfer socket based application with client-server connection.

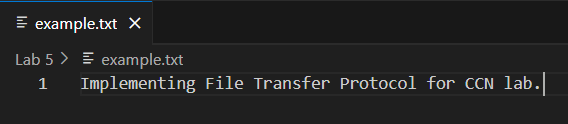
Code for server:



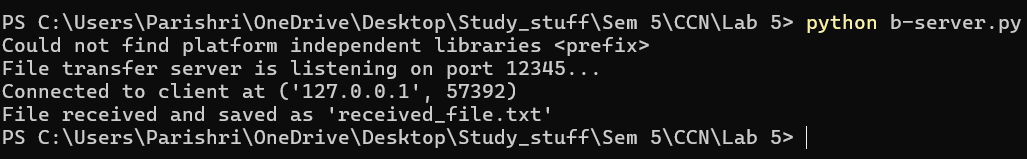
Code for client:



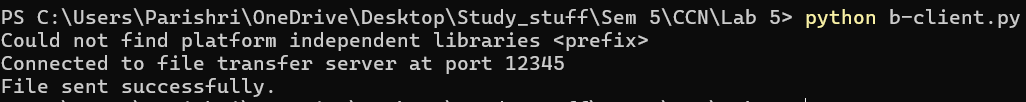
Example.txt - file to be transferred by client to server



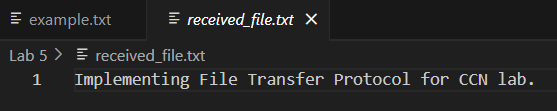
Output for server:



Output for client:

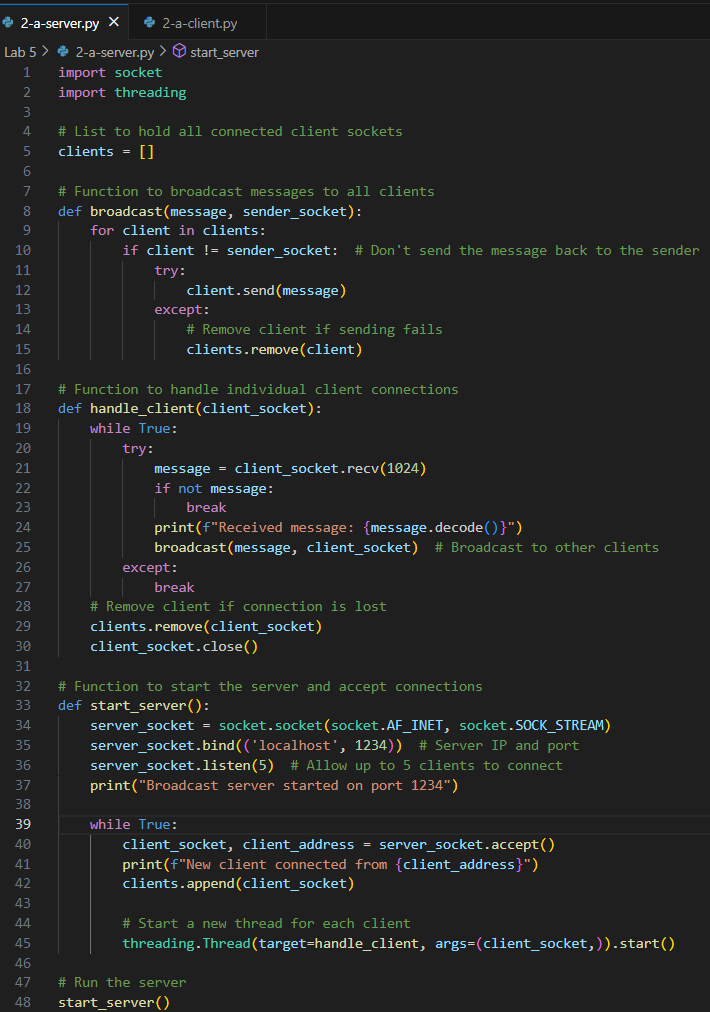


File received by server:

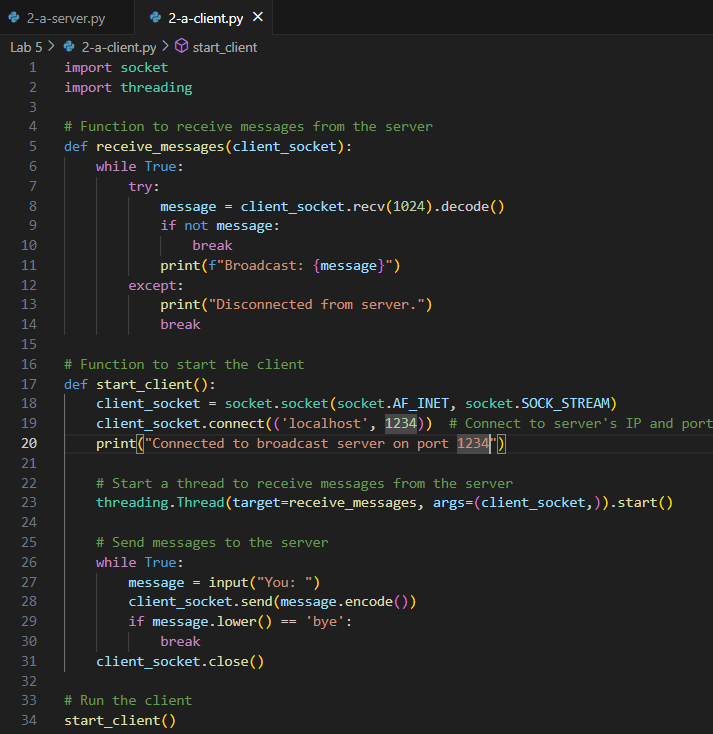


2. a) Develop a broadcasting application with Socket programming.

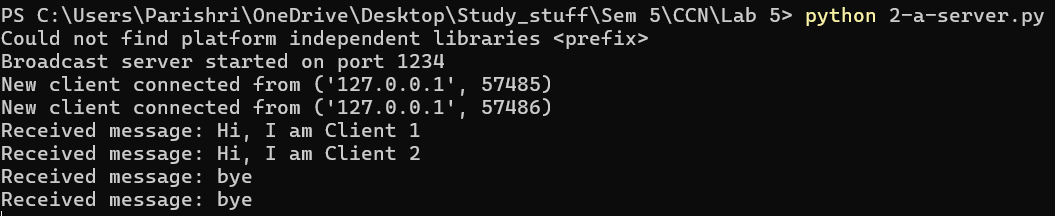
Code for server:



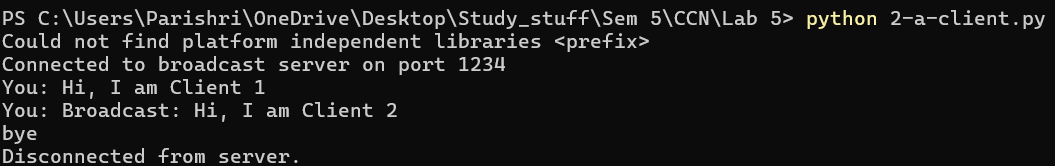
Code for client:



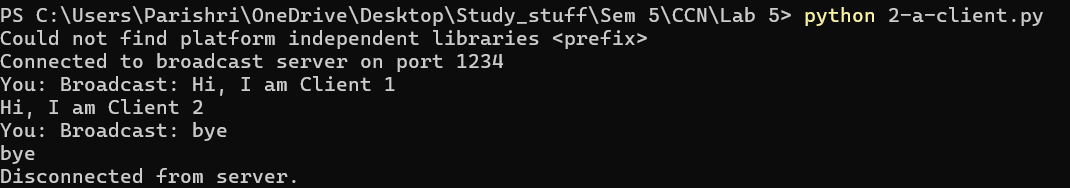
Output for server:



Output for client 1:



Output for client 2:

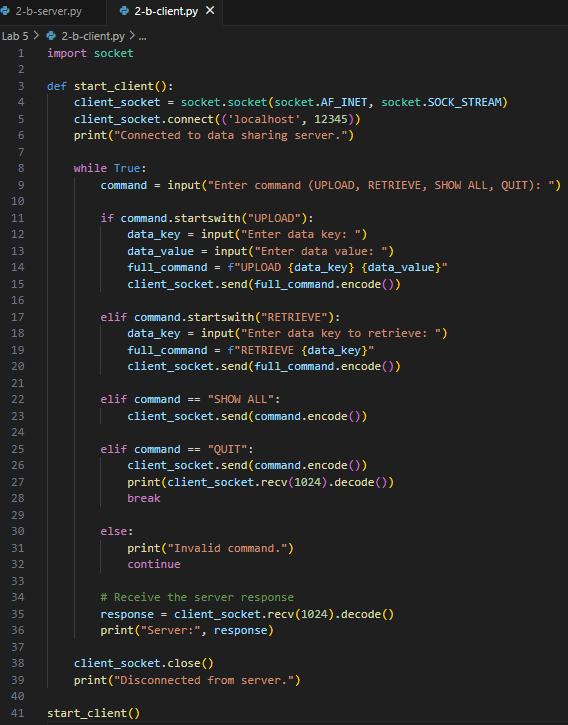


b) Form a data serves for data sharing within the group

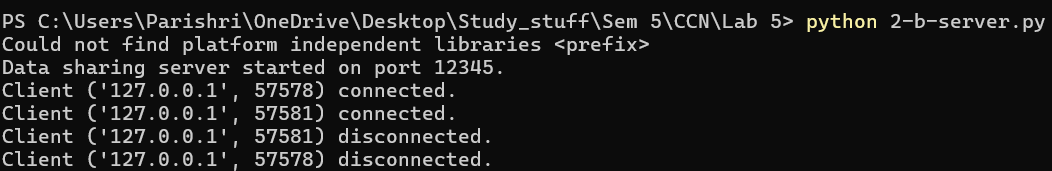
Code for server:



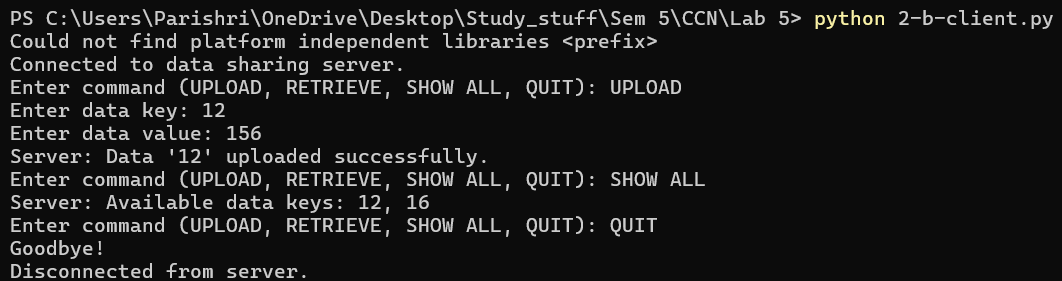
Code for client:



Output for server:



Output for client 1:



Output for client 2:

