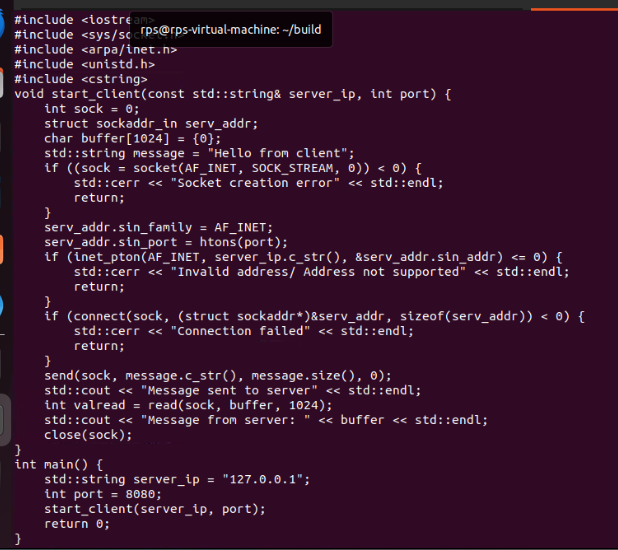
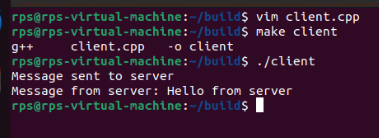
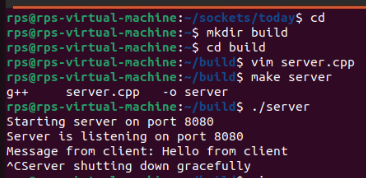
1.Design and implement a network service that reliably handles concurrent client connections while ensuring graceful termination in response to external signals (e.g., SIGTERM, SIGINT). The service must maintain data consistency and avoid resource leaks throughout its lifecycle.

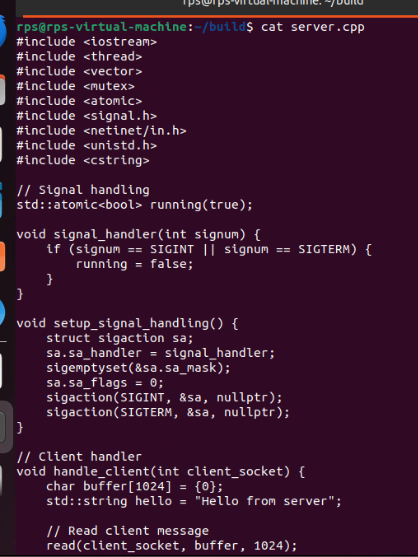
Client:

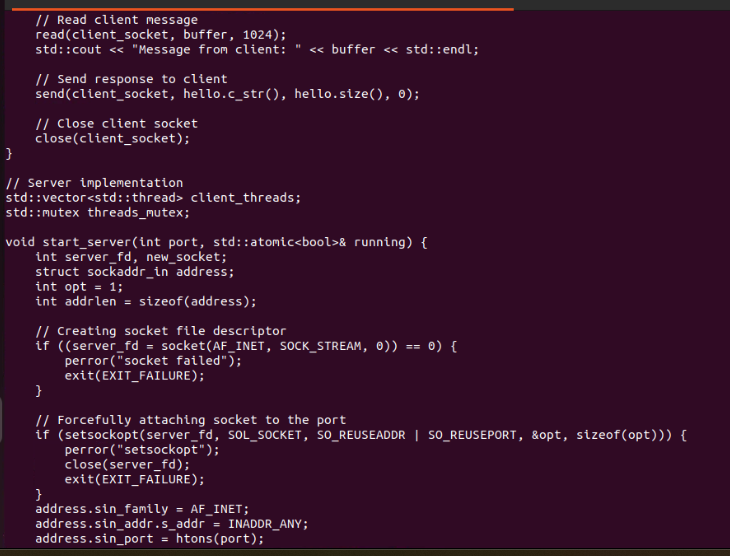


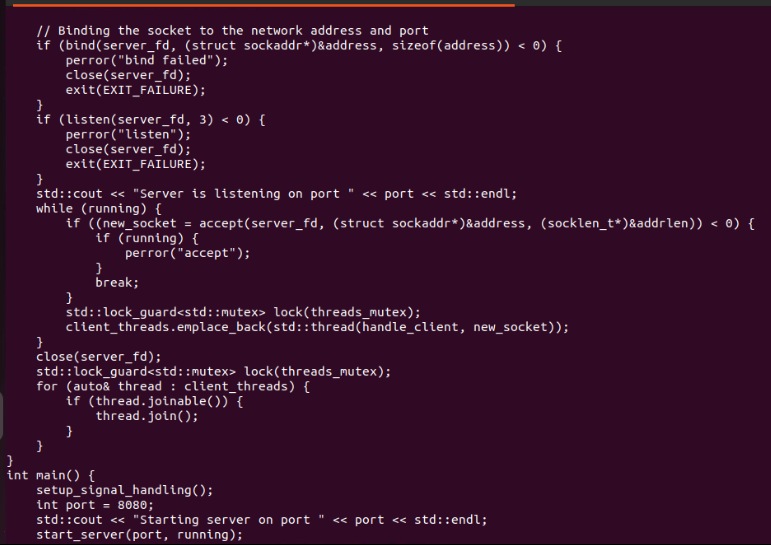


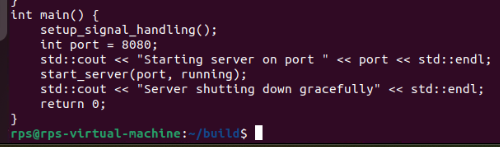
Server:





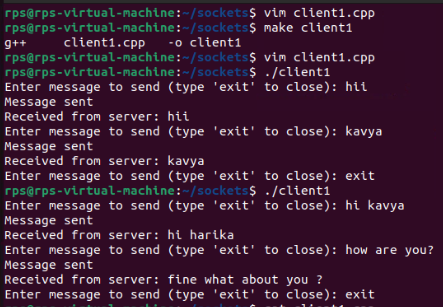


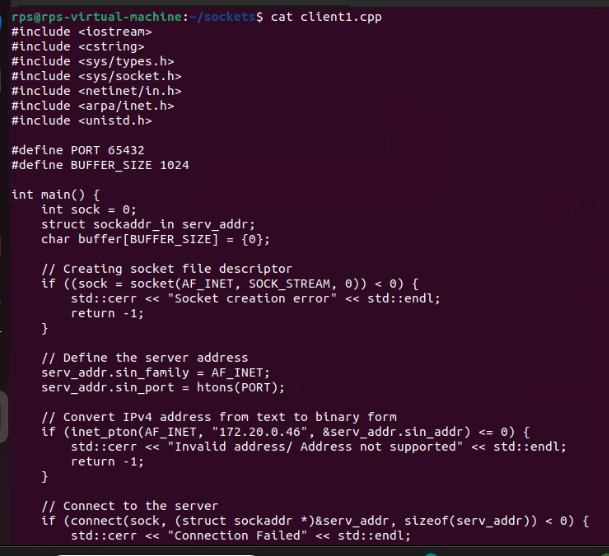


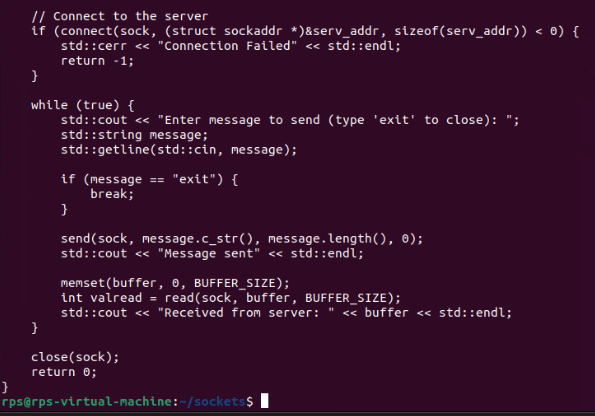


2. Conversation between two people as a client and server.

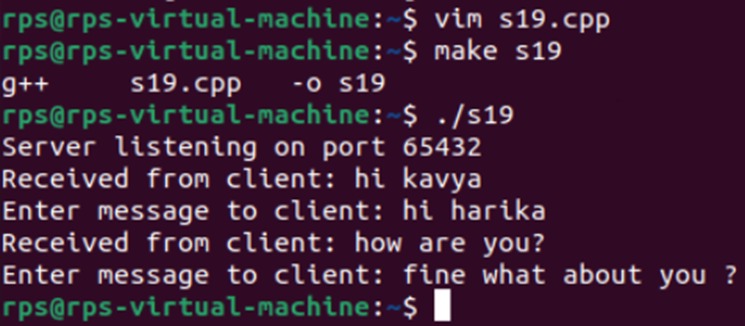
Client: Harika

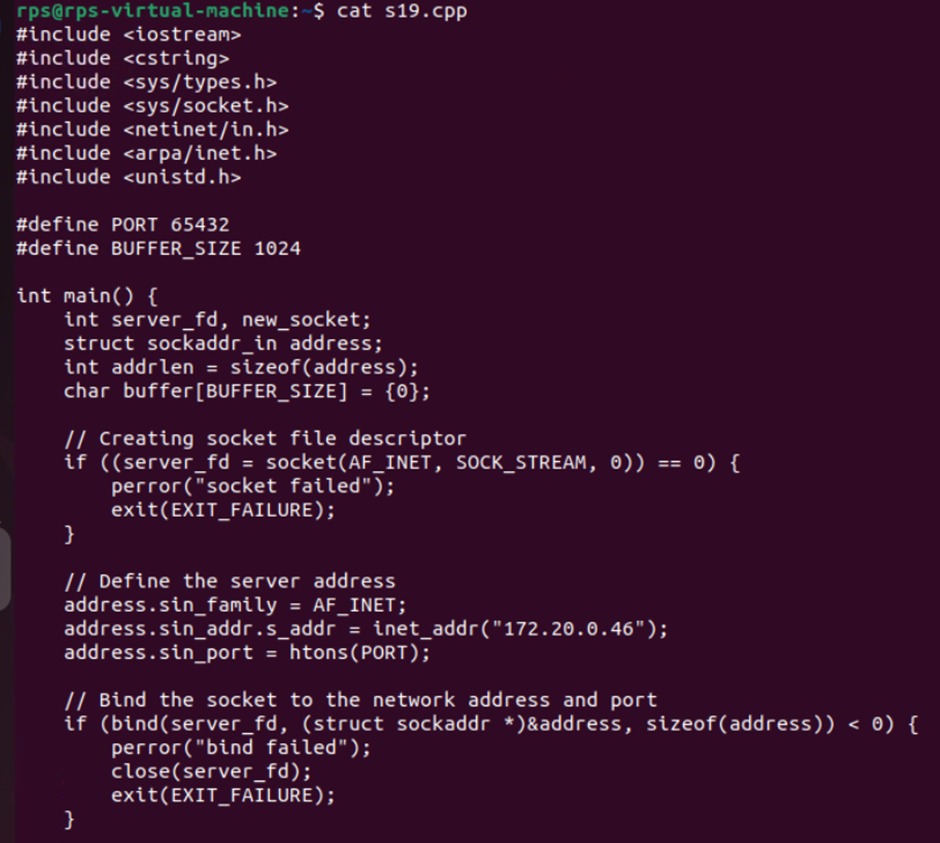


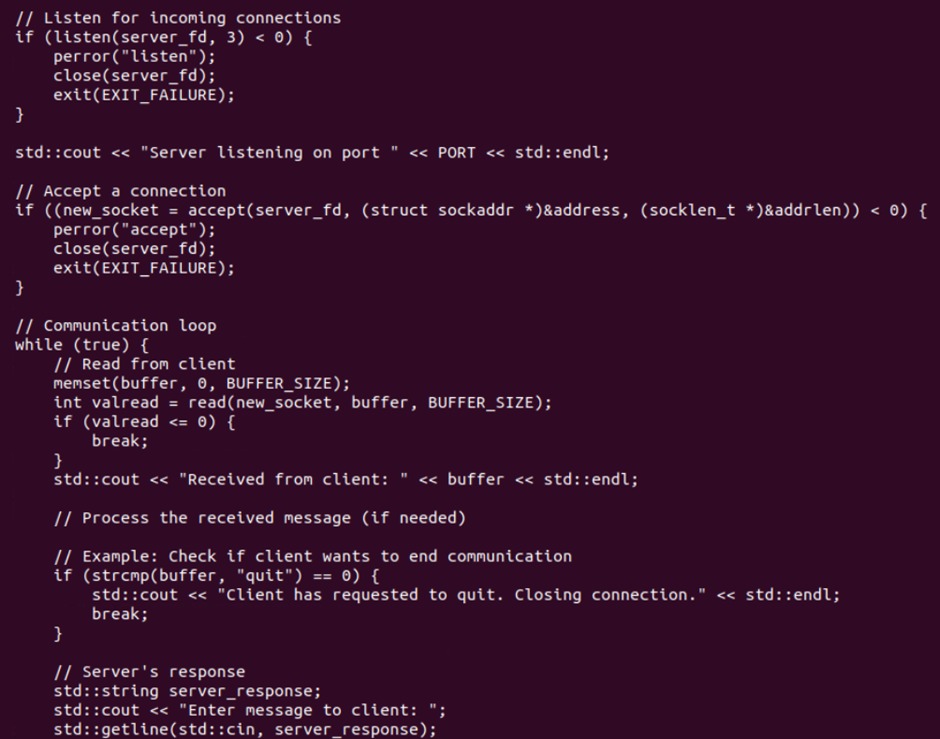


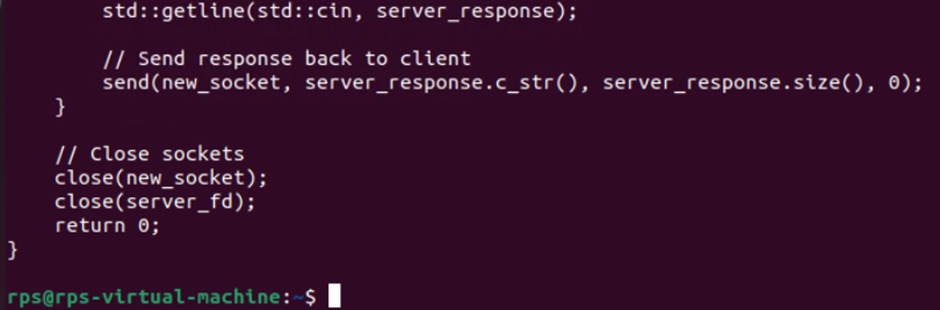


Server: Kavya



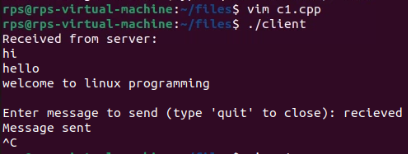


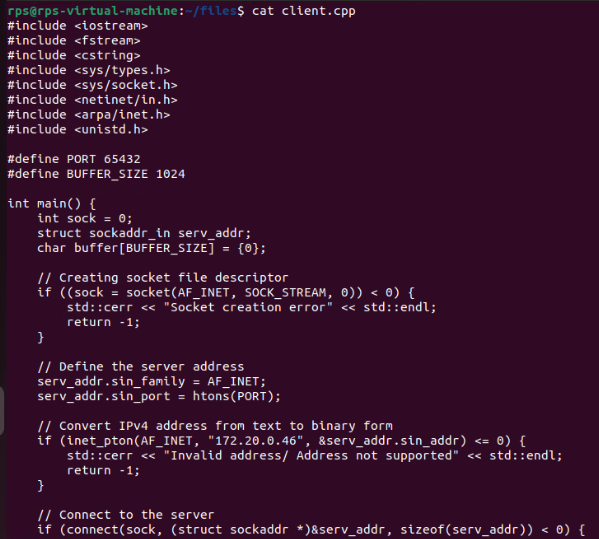


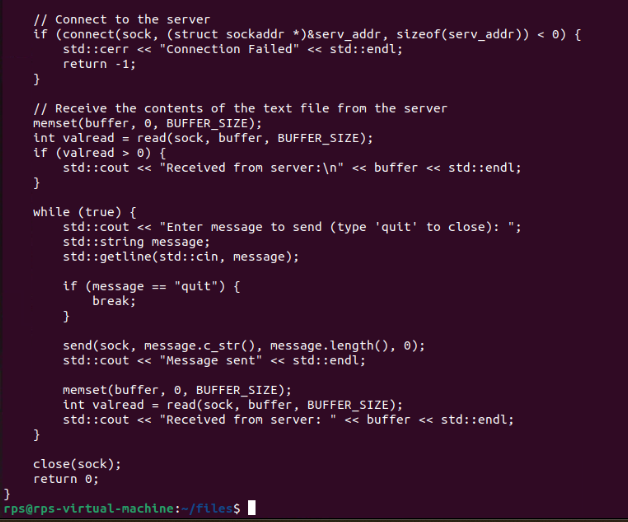


Create a text file and then send from the server to client and vice versa.

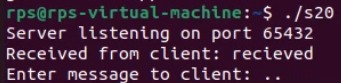
Server-Client : Client

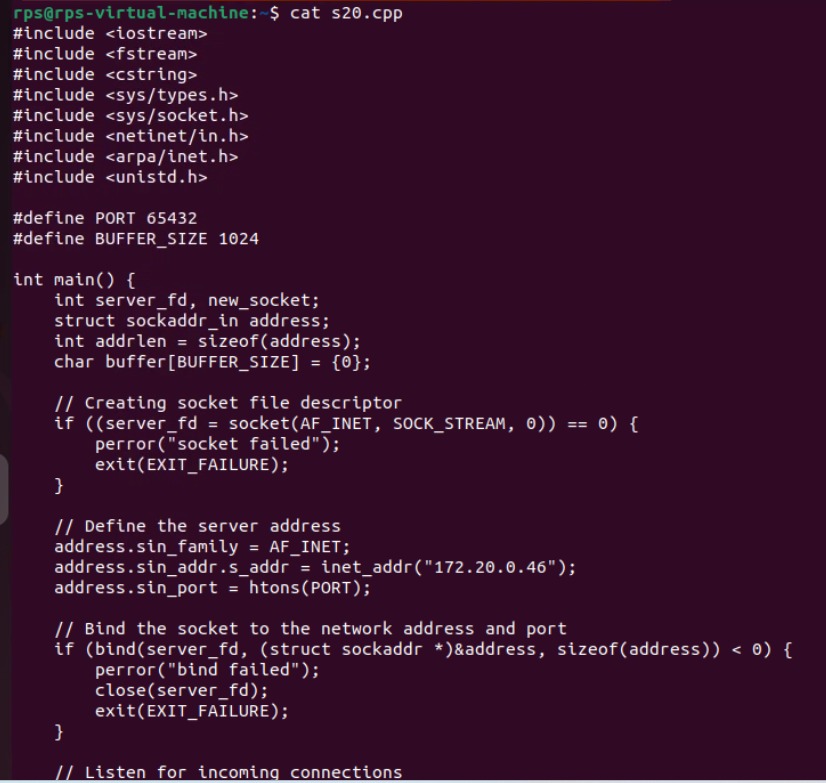


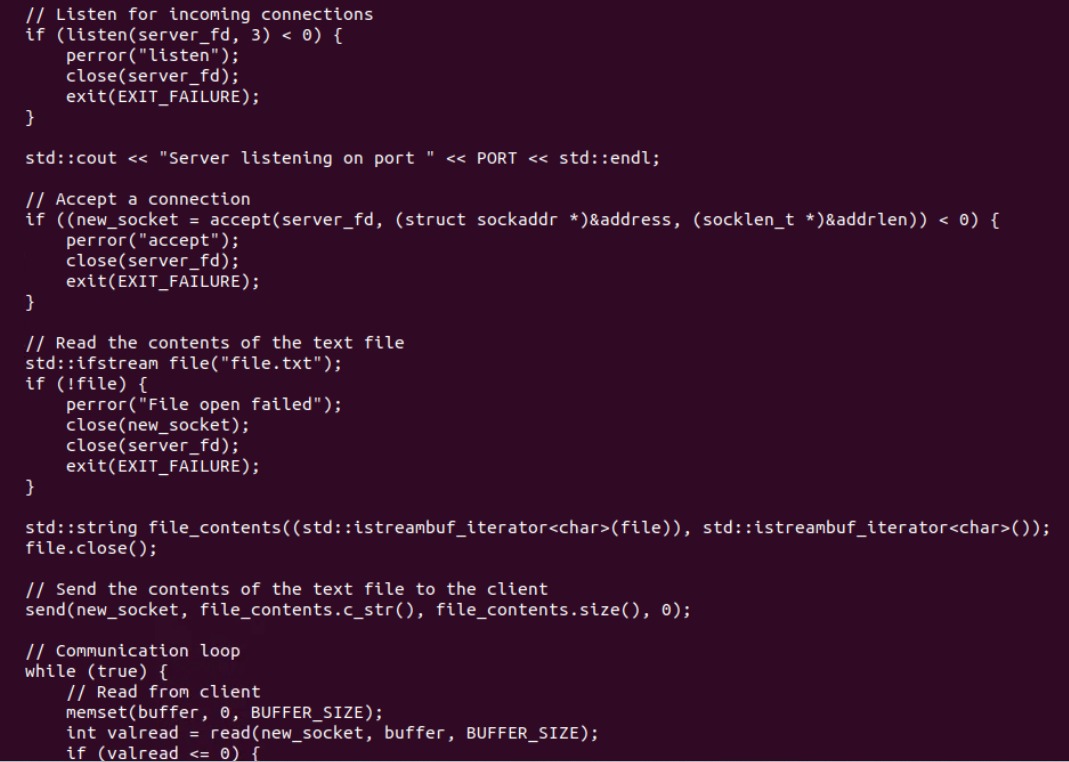


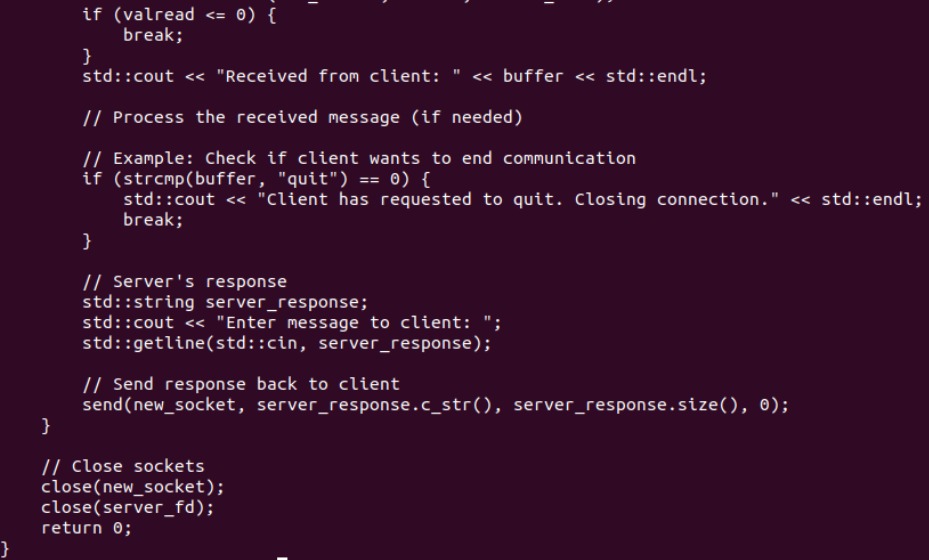


Server: Same code when client transferred file to server.



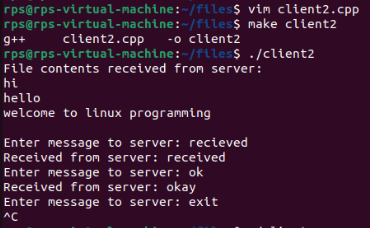


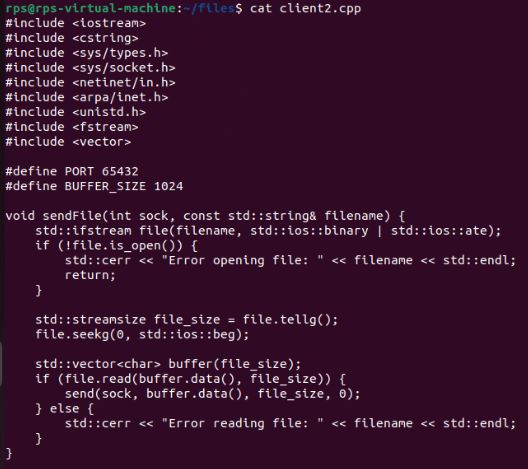


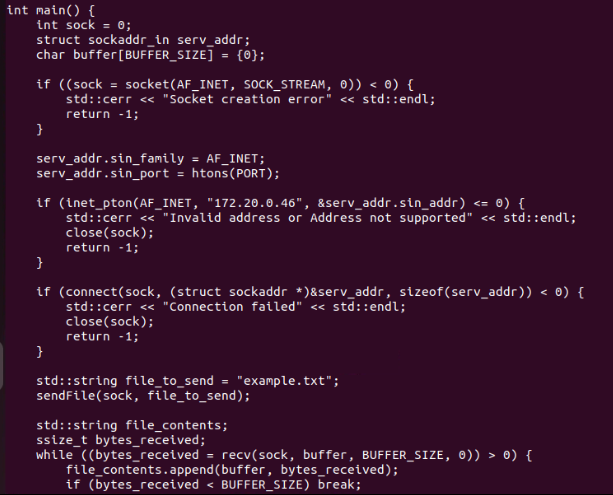


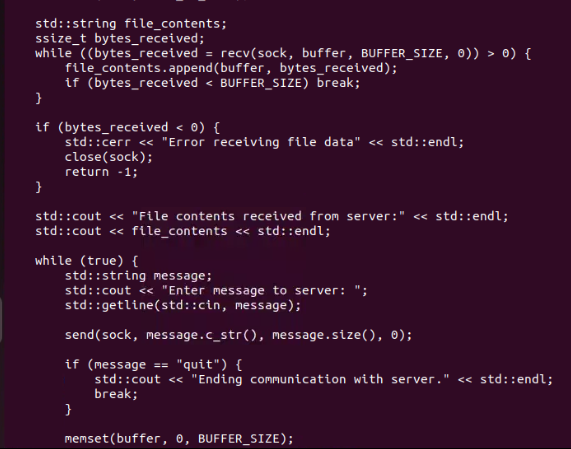
Server – Client:

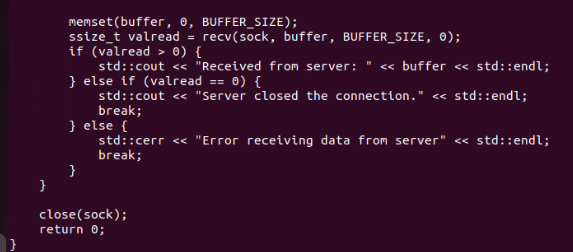
Client











Server:

