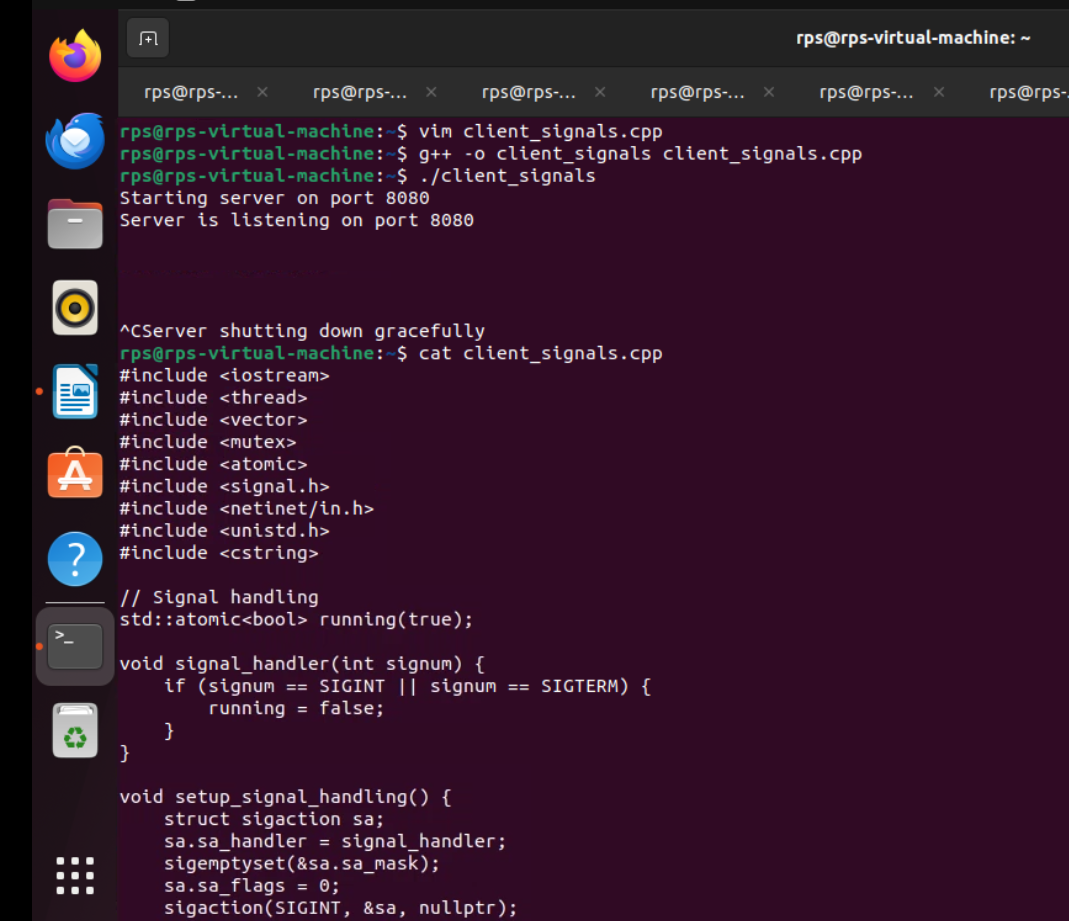
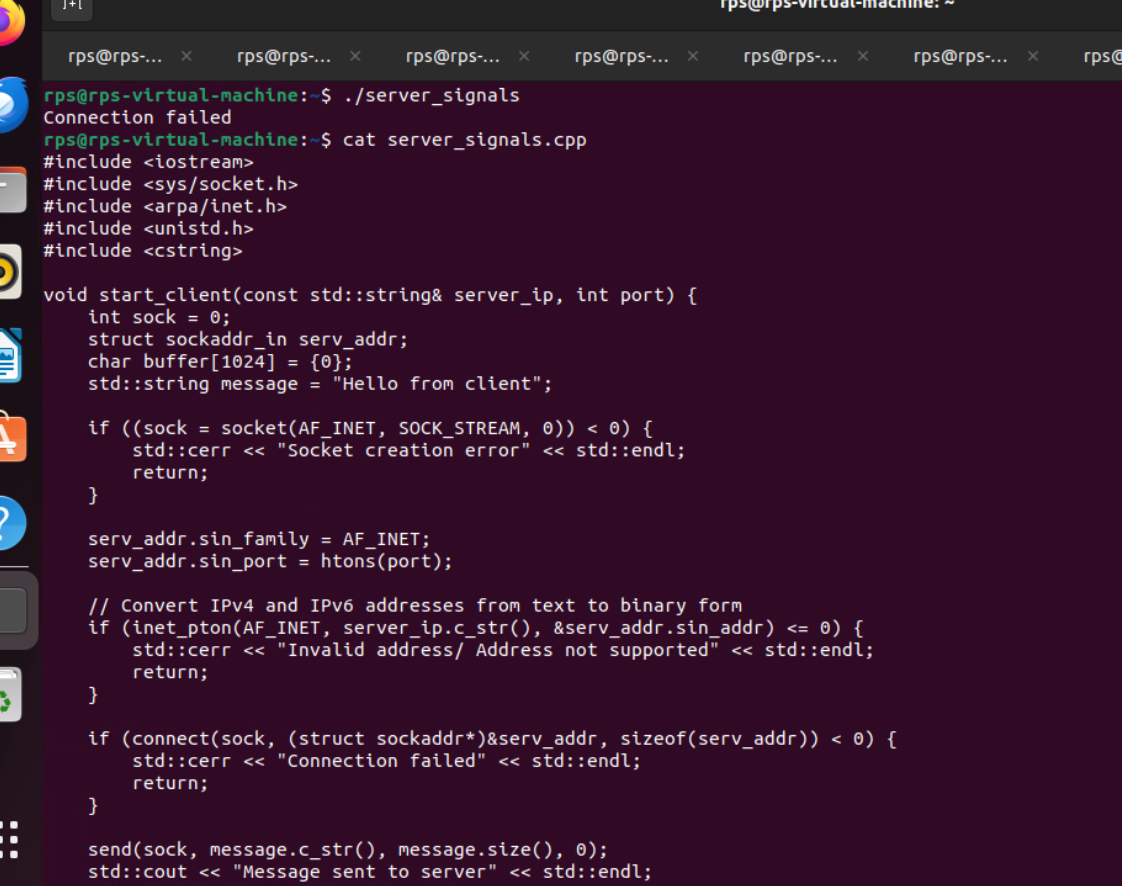
Design and implement a network service that reliably handles concurrent client connections while ensuring graceful termination in response to external signals (e.g., SIGTERM, SIGINT). The service must maintain data consistency and avoid resource leaks throughout its lifecycle.

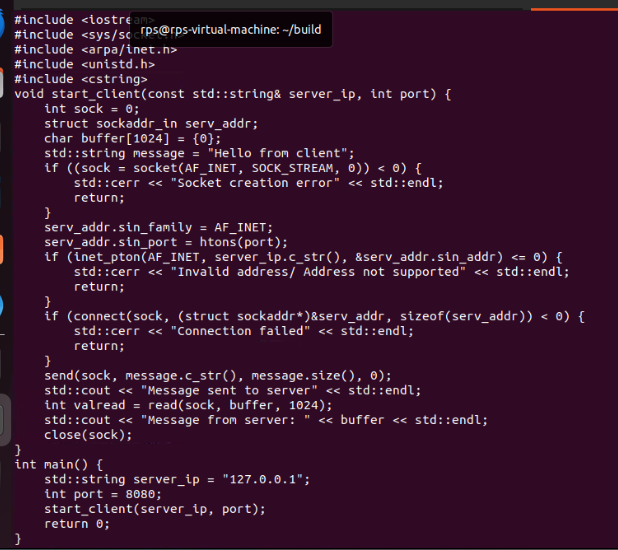




LINUX-26-07-24

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.

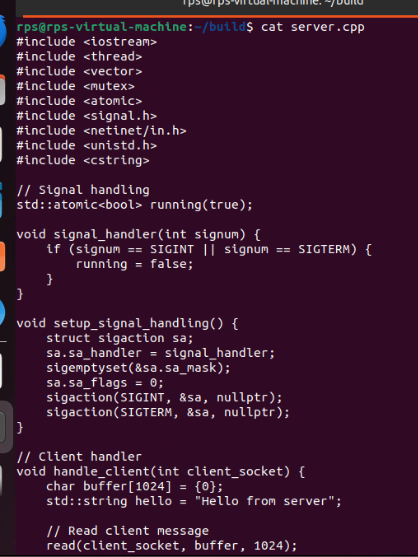
Client:

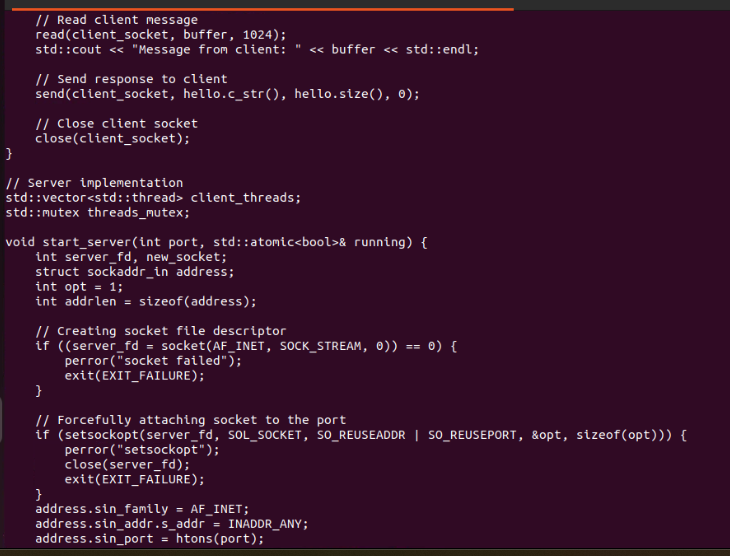


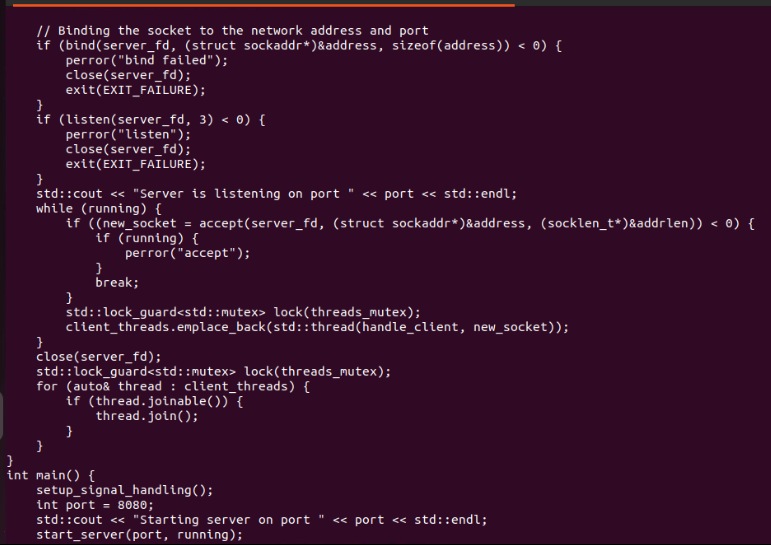


Server:



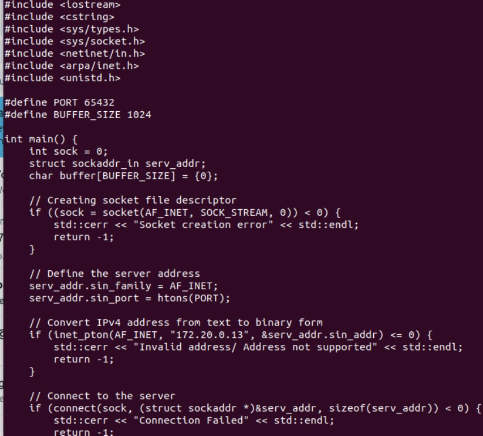


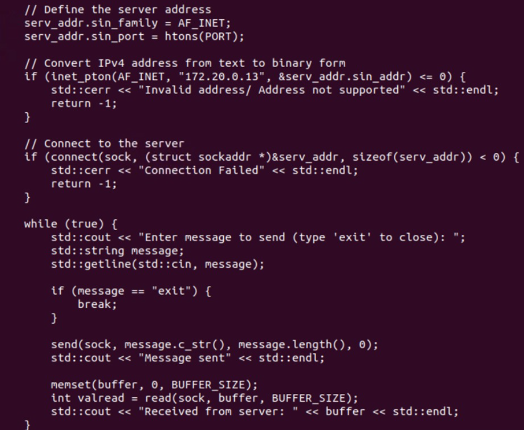


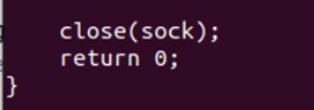


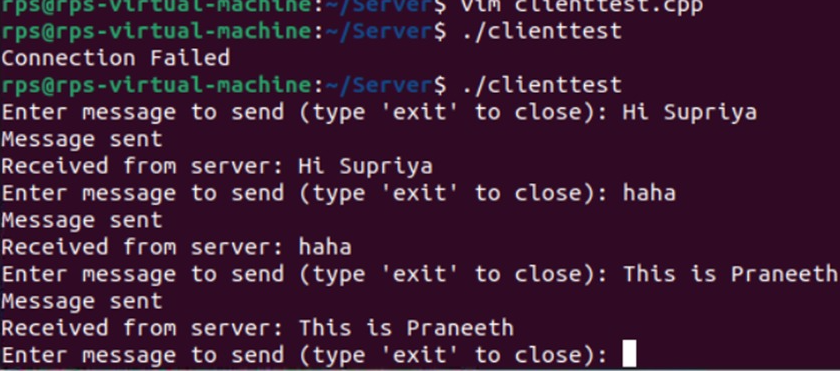


CLIENT CODE: FROM BOTH SIDES:

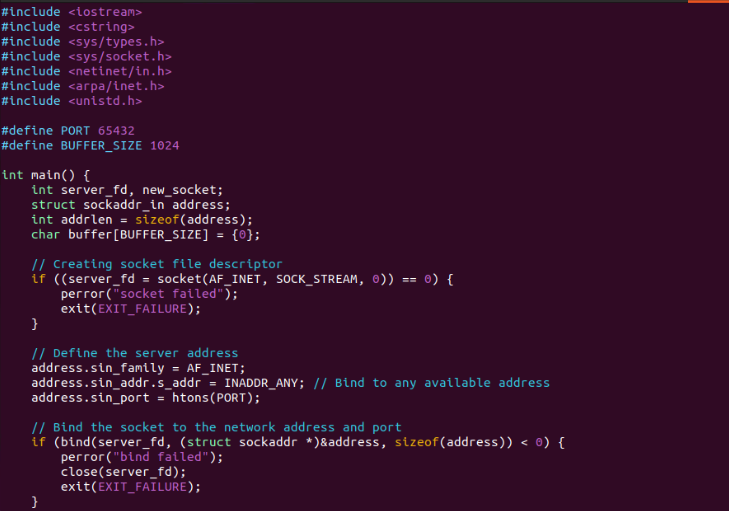


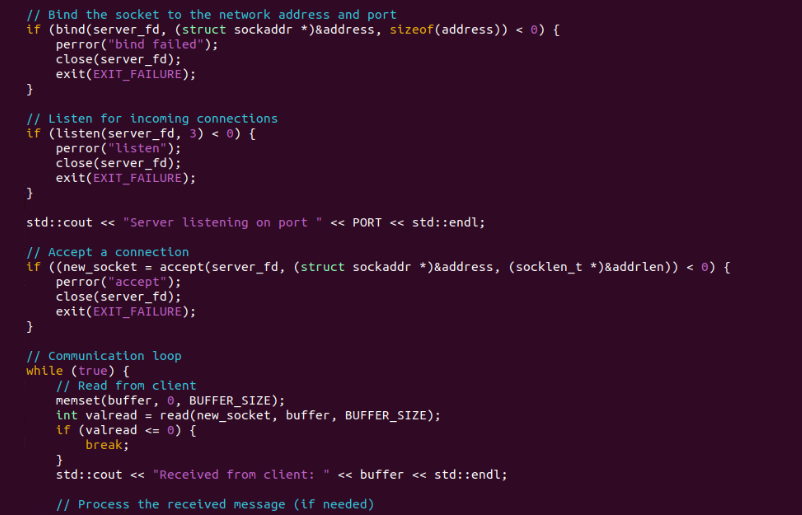


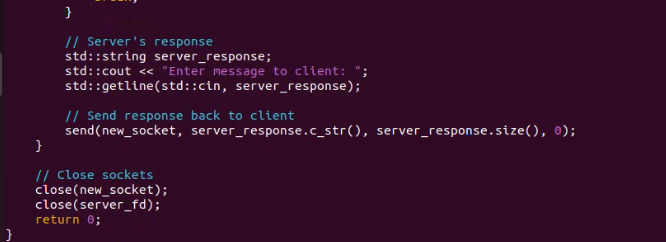




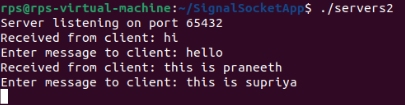
Server to lient and client to server :







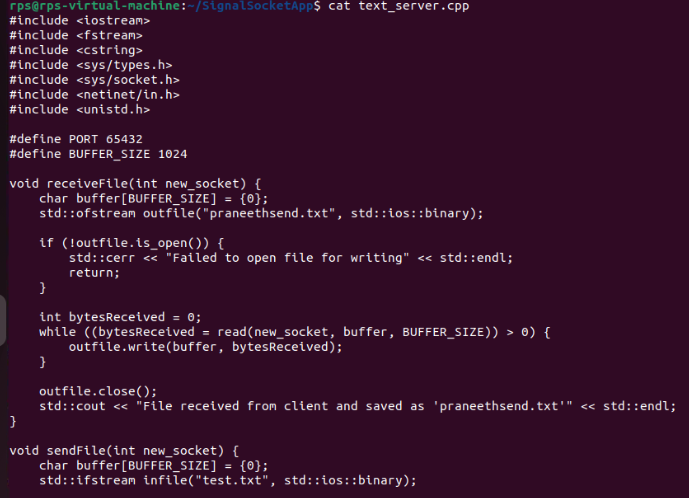
Output:

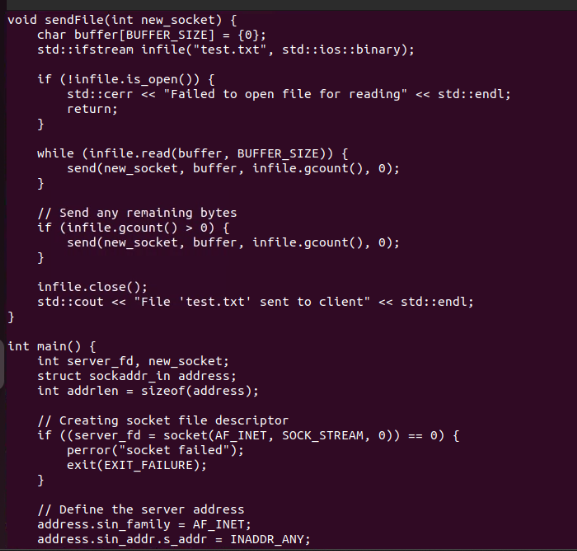


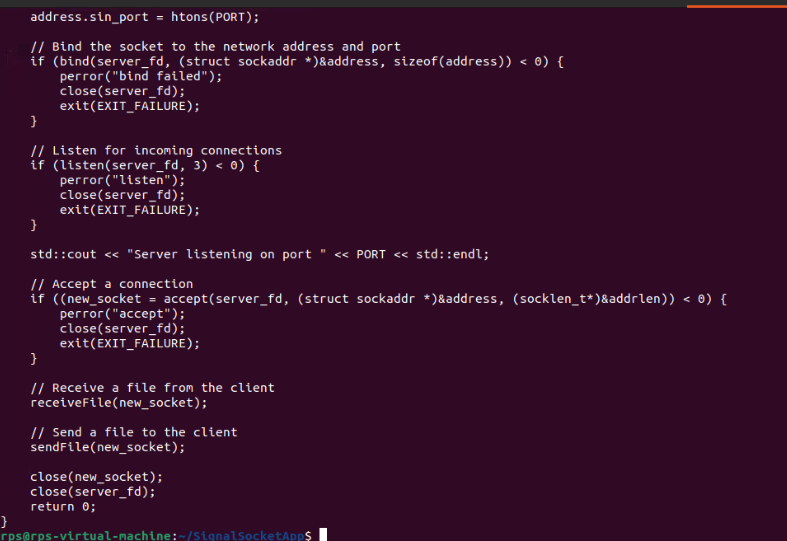
Task 3:

Sending files to client and server “

Server code:





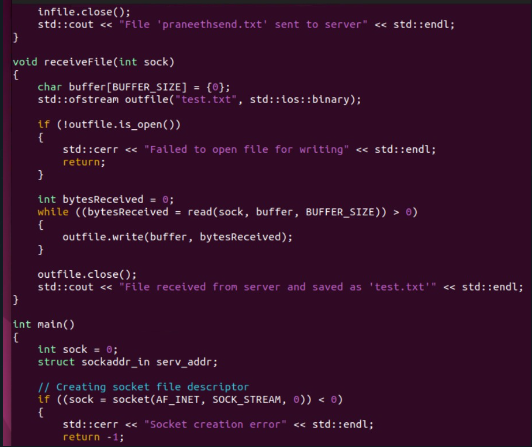


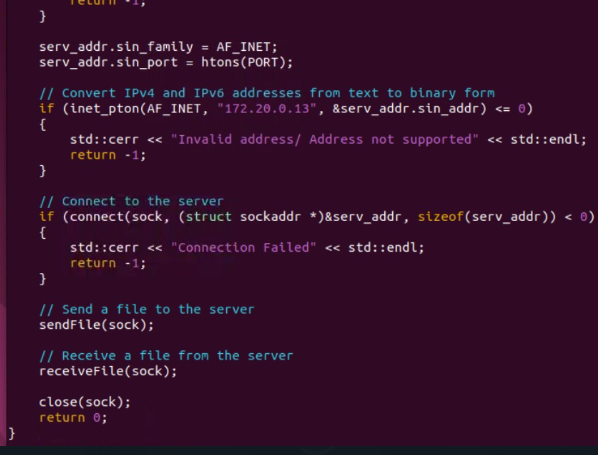
Output:



Client code:







Output:

