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Question 1

The design of the program starts with a Java server that a client can communicate with. The server establishes a socket as a server for the local area net. When the connection is established, the server returns to the client a locally stored quote of the day as binary and closes the connection. The client on the other hand, requests a connection to the socket the server is accepting on, once it makes the connection and receives the binary, the client then processes it into usable readable ASCII characters which then gets outputted to the client once processed. The video demo for the Quote Server is in the root folder of the project.

Question 2

The design of the program is very simple. It establishes the socket and listens for a connection, then once the connection is made the client reads the input from the user and gives it to the server which then repeats it back to the client to display for the user. It also checks the input each time for the string ‘exit’ which will then disconnect the client from the socket.

Execution video: <https://youtu.be/KohYzaaywmc>