Final project

BASIC CHAT APPLICATION:

```java
ServerSocket serverSocket = new ServerSocket(PORT);

while (true) {

Socket socket = serverSocket.accept();

// Create a thread to handle client communication

ClientHandler clientHandler = new ClientHandler(socket);

clientHandler.start();

}

// Client-side code

Socket socket = new Socket(HOST, PORT);

// Create input and output streams

BufferedReader input = new BufferedReader(new InputStreamReader(socket.getInputStream()));

PrintWriter output = new PrintWriter(socket.getOutputStream(), true);

// Start a thread to read messages from the server

new Thread(() -> {
```

```java
        }

        while (true) {

            String message = input.readLine();

            System.out.println(message);

        }

    }).start();

    // Send messages to the server

    system.out.println("Hello from client!");
```