

TCPClient.java

```

1 package tcp;
2
3 import java.net.*;
4
5
6
7 public class TCPClient {
8     public InetAddress serverAddress = null;
9     public Socket clientSocket = null;
10    public ObjectOutputStream out = null;
11    public ObjectInputStream in = null;
12
13    public TCPClient(InetAddress serverAddress) {
14        this.serverAddress = serverAddress;
15    }
16
17    public void start() {
18        try {
19            this.clientSocket = new Socket();
20            this.clientSocket.connect(this.serverAddress);
21
22            out = new ObjectOutputStream(clientSocket.getOutputStream());
23            out.flush();
24
25            in = new ObjectInputStream(clientSocket.getInputStream());
26            System.out.println("Client ready to send messages!");
27
28            while (true) {
29                Scanner scanner = new Scanner(System.in);
30                String message = scanner.nextLine().trim();
31
32                out.writeObject(message);
33                System.out.println("Received: " + in.readObject());
34            }
35        } catch (Exception e) {
36            e.printStackTrace();
37        } finally {
38            if (clientSocket != null) {
39                try {
40                    clientSocket.close();
41                } catch (IOException e) {
42                    e.printStackTrace();
43                }
44            }
45        }
46    }
47
48    public static void main(String args[]) {
49        int port = 3000;
50        InetAddress serverAddress = new InetAddress(port);
51
52        TCPClient client = new TCPClient(serverAddress);
53        client.start();
54    }
55 }
56

```