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/**
 * This is a demo server-side socket connection program for a multi-
 * threaded client-server
 * architecture based on Runnable interface. The Server receives some
 * messages from the Client
 * and instantly sends them back to the Client (a.k.a. Echo-Server).
 */

import java.io.*;
import java.net.*;

class Server {
    public static void main(String[] args)
    {
        ServerSocket server = null;

        try {

            // server is listening on port 2021
            server = new ServerSocket(2021);

            // running infinite loop accepting client request
            while (true) {

                // socket object to receive incoming client requests
                Socket client = server.accept();
                System.out.println("New client connected"
                    + client.getInetAddress().getHostAddress());

                // create a new thread object of Runnable
                ClientHandler clientSock = new ClientHandler(client);

                // This thread will handle the client separately
                new Thread(clientSock).start();

            }
        }
        catch (IOException e) {
            e.printStackTrace();
        }
        // command "finally" is omitted
    }

    private static class ClientHandler implements Runnable {
        private final Socket clientSocket;

        // Constructor
        public ClientHandler(Socket socket)
        {
            this.clientSocket = socket;
        }

        // the thread echoes client's messages
        public void run()
        {
            PrintWriter out = null;
            BufferedReader in = null;
            try {

                // get the outputstream of client
                out = new PrintWriter(
                    clientSocket.getOutputStream(), true);

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        // get the inputstream of client
        in = new BufferedReader(
            new InputStreamReader(
                clientSocket.getInputStream()));

        // writing the received message from client
        String line;
        while ((line = in.readLine()) != null) {
            System.out.printf(
                " Sent from the client: %s\n",
                line);
            out.println(line);
        }
    }
    catch (IOException e) {
        e.printStackTrace();
    }
    // command "finally" is omitted
}
}
}

```