

Лабораторна работа #9

Тема: “#18. Shell (total commander)”

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Вихідні коди

```
import java.io.*;
import java.net.ServerSocket;
import java.net.Socket;

public class ShellServer {

    public static void main(String[] args) {
        int portNumber = 12345;

        try (ServerSocket serverSocket = new ServerSocket(portNumber)) {
            System.out.println("Server is waiting for client connections on port " + portNumber);

            while (true) {
                Socket clientSocket = serverSocket.accept();
                System.out.println("Connected to client: " + clientSocket.getInetAddress());
                handleClient(clientSocket);
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }

    private static void handleClient(Socket clientSocket) {
        try (
            BufferedReader reader = new BufferedReader(new
InputStreamReader(clientSocket.getInputStream()));
            BufferedWriter writer = new BufferedWriter(new
OutputStreamWriter(clientSocket.getOutputStream()))
        ) {
            String command;
            while ((command = reader.readLine()) != null) {
                System.out.println("Received command from client: " + command);

                writer.write("Server response: Command received\n");
                writer.flush();
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

```

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

public class ShellClient {

    public static void main(String[] args) {
        String serverAddress = "127.0.0.1"; // Адреса вашего сервера
        int serverPort = 12345;

        try (Socket socket = new Socket(serverAddress, serverPort)) {
            System.out.println("Connected to server: " + serverAddress + ":" + serverPort);

            interactWithServer(socket);
        } catch (IOException e) {
            e.printStackTrace();
        }
    }

    private static void interactWithServer(Socket socket) {
        try (
            BufferedReader reader = new BufferedReader(new InputStreamReader(socket.getInputStream()));
            BufferedWriter writer = new BufferedWriter(new OutputStreamWriter(socket.getOutputStream()))
        ) {
            writer.write("LIST_FILES\n");
            writer.flush();

            String response = reader.readLine();
            System.out.println("Server response: " + response);
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

```