

# CLIENT-SERVER COMMUNICATION USING SOCKET PROGRAMMING (UDP)

**AUTHOR: EMIL TITUS**

(Roll #24)

## Compiling the Program

To compile the program:

```
javac Server.java
```

```
javac Client.java
```

## Running the Program

In a terminal, run the Server program. While the Server is running, run the Client program in another terminal with the correct socket address.

In the first terminal:

```
java Server <port>
```

In the second terminal, run:

```
java Client <host address> <port>
```

The client request and server response have to be typed by the user into the terminal when prompted (i.e., when seeing '>>').

The 'Exit' request from the client is used to terminate the connection. The server has to confirm this to complete the termination process. Only the client can initiate this process.

## Screenshots

```
Windows PowerShell
PS D:\emilt> java Server 5000

.d8888b.
d88P  Y88b
Y88b.
"Y888b. .d88b. 888d888 888 888 .d88b. 888d888
"Y88b. d8P  Y8b 888P" 888 888 d8P  Y8b 888P"
"888 888888888 888 Y88 88P 888888888 888
Y88b d88P Y8b. 888 Y8bd8P Y8b. 888
"Y8888P" "Y8888 888 Y88P "Y8888 888

[23:51:29] Server socket created. Binded to local port 5000

[23:52:13] Client Request: Hi
>> Hello
[23:52:17] Server Response: Hello

[23:52:27] Client Request: Exit

Client is waiting for exit confirmation from server...

>> Exit
[23:52:32] Server Response: Exit

Server acknowledges exit request. Server exiting.

PS D:\emilt> |

Windows PowerShell
PS D:\emilt> java Client localhost 5000

.d8888b. 888 d8b 888
d88P Y88b 888 Y8P 888
888 888 888 888
888 888 888 .d88b. 88888b. 888888
888 888 888 d8P Y8b 888 "88b 888
888 888 888 888 888888888 888 888 888
Y88b d88P 888 888 Y8b. 888 888 Y88b.
"Y8888P" 888 888 "Y8888 888 888 "Y888

[23:51:42] Client socket created. Binded to local port 52903

>> Hi
[23:52:13] Client Request: Hi
[23:52:17] Server Response: Hello

>> Exit
[23:52:27] Client Request: Exit

Waiting for exit confirmation from server...

[23:52:32] Server Response: Exit

Server confirmation received. Client exiting.

PS D:\emilt> |
```