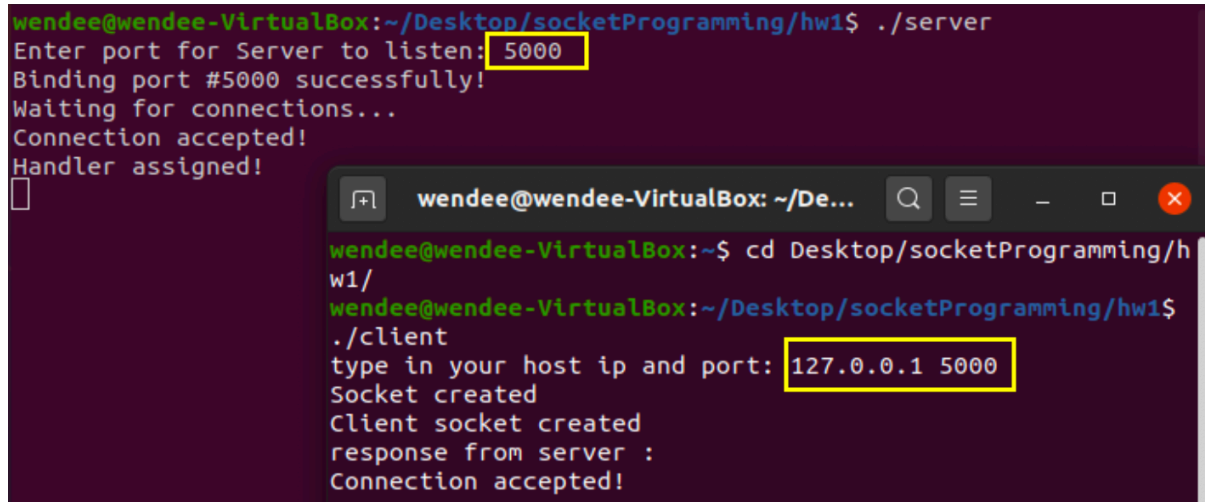


## Socket programming HW1 - Screenshots of Execution Result

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- Connect to server

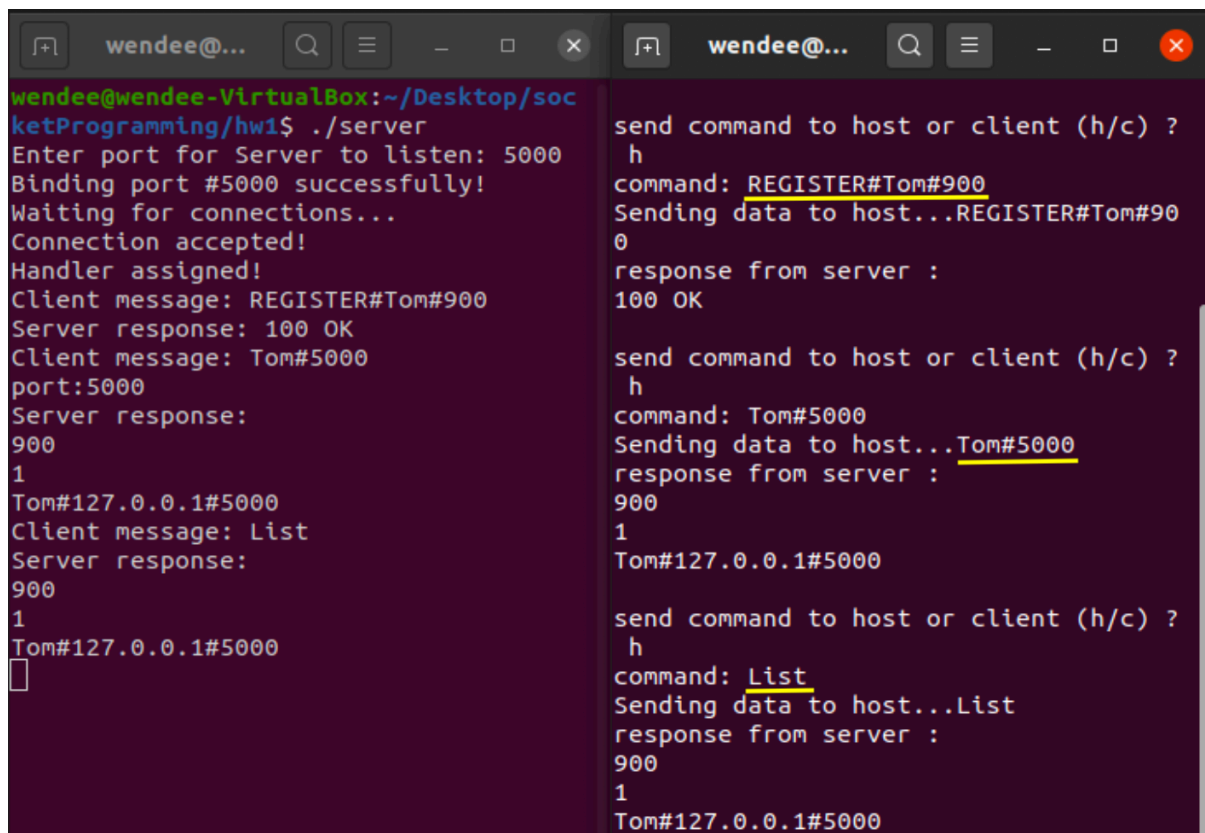


The screenshot shows two terminal windows. The left window is the server process, and the right window is the client process. Both are running in a VirtualBox environment.

```
wendee@wendee-VirtualBox:~/Desktop/socketProgramming/hw1$ ./server
Enter port for Server to listen: 5000
Binding port #5000 successfully!
Waiting for connections...
Connection accepted!
Handler assigned!
█
```

```
wendee@wendee-VirtualBox:~/Desktop/socketProgramming/hw1$ cd Desktop/socketProgramming/hw1/
wendee@wendee-VirtualBox:~/Desktop/socketProgramming/hw1$ ./client
type in your host ip and port: 127.0.0.1 5000
Socket created
Client socket created
response from server :
Connection accepted!
```

- Register User, login, list account balance



The screenshot shows two terminal windows side-by-side, displaying the interaction between the server and the client. The left window is the server, and the right window is the client.

```
wendee@wendee-VirtualBox:~/Desktop/socketProgramming/hw1$ ./server
Enter port for Server to listen: 5000
Binding port #5000 successfully!
Waiting for connections...
Connection accepted!
Handler assigned!
Client message: REGISTER#Tom#900
Server response: 100 OK
Client message: Tom#5000
port:5000
Server response:
900
1
Tom#127.0.0.1#5000
Client message: List
Server response:
900
1
Tom#127.0.0.1#5000
█
```

```
wendee@wendee-VirtualBox:~/Desktop/socketProgramming/hw1$ ./client
send command to host or client (h/c) ?
h
command: REGISTER#Tom#900
Sending data to host...REGISTER#Tom#900
response from server :
100 OK

send command to host or client (h/c) ?
h
command: Tom#5000
Sending data to host...Tom#5000
response from server :
900
1
Tom#127.0.0.1#5000

send command to host or client (h/c) ?
h
command: List
Sending data to host...List
response from server :
900
1
Tom#127.0.0.1#5000
```

- Execute a new client. Send command for micropayment request. (If the command was shown on the original client's terminal, it means request succeed.)

```
wendee@wendee-VirtualBox: ~/Desktop/socketProgramming/hw1$ ./server
Sending data to host...REGISTER#Tom#900

wendee@wendee-VirtualBox: ~/Desktop/socketProgramming/hw1$ ./client
type in your host ip and port: 127.0.0.1 5000
Socket created
Client socket created
Binding port result: -1
Can't binding socket to local address!
response from server :
Connection accepted!

send command to host or client (h/c) ? c
new_sock: -1, client_sock: -1
type in client receiver's ip and host: 127.0.0.1 8888
Client socket created
command: Tom#400#wendee
Sending data to client...Tom#400#wendee
send command to host or client (h/c) ?

send command to host or client (h/c) ?
Connection accepted from 127.0.0.1 35412
response from client :
Tom#400#wendee
client message received :)
```

- Disconnect to server

```
Handler assigned!
Client message: Exit
Server response: The message is not valid, please try again!
Client message: Exit
Server response: Bye
Client disconnected!

h
command: Exit
Sending data to host...Exit
response from server : Bye

send command to host or client (h/c) ?
```