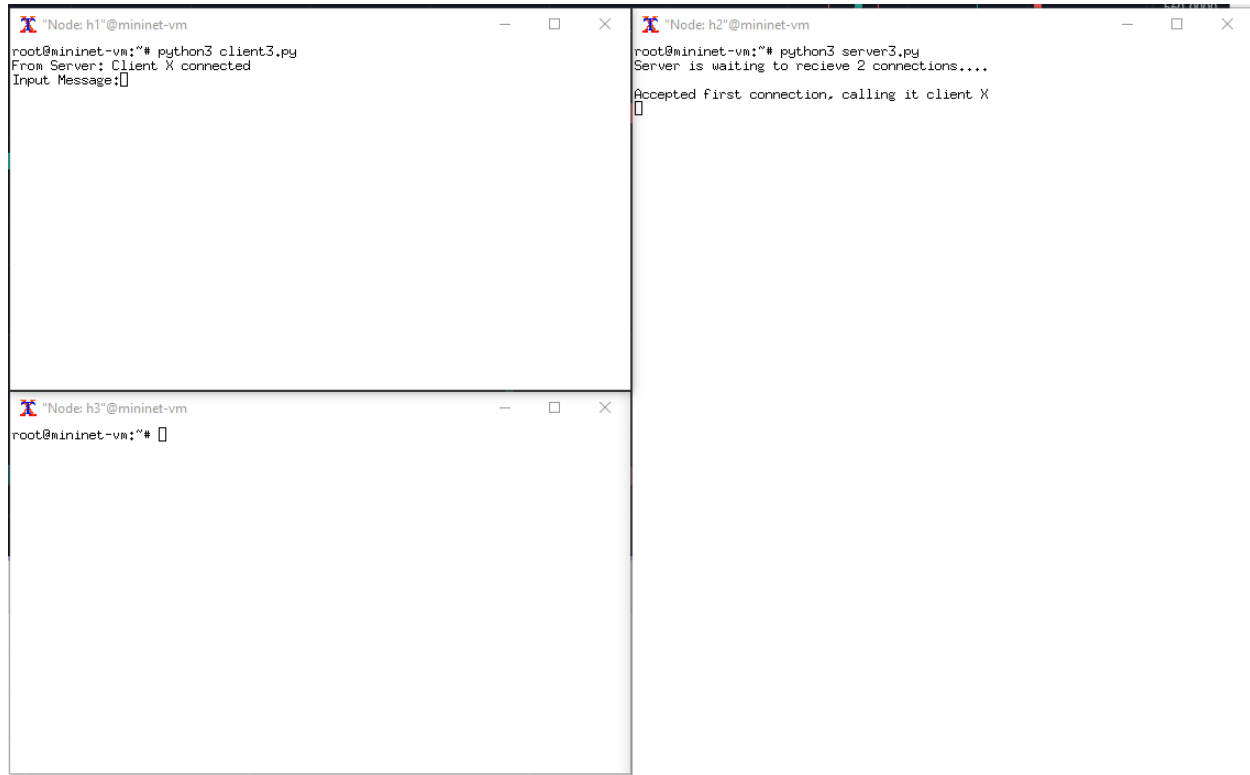Note: For the testing of the code we had the server file named server3.py and the client file named client3.py, the files we submitted are the same files just renamed for the requirements.
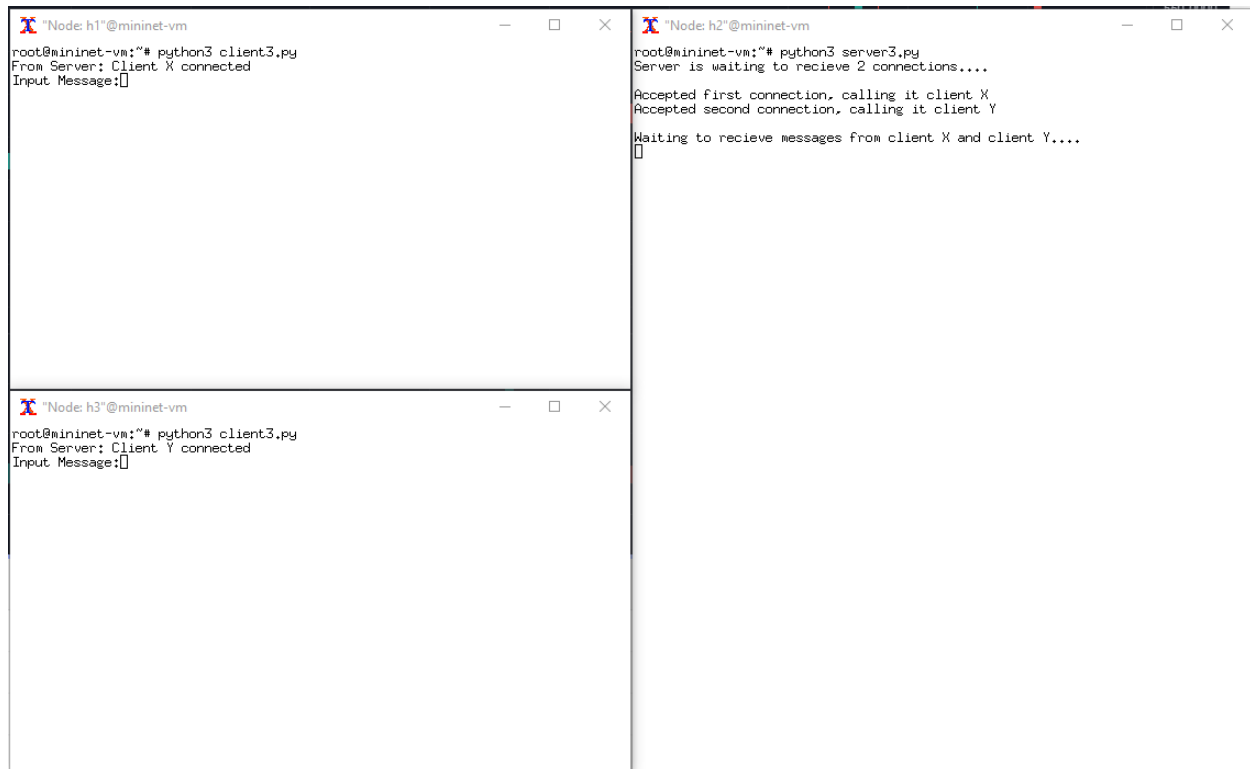
Client Connections:

```
"Node: h1"@mininet-vm
root@mininet-vm:~# python3 client3.py
From Server: Client X connected
Input Message:
```

```
"Node: h2"@mininet-vm
root@mininet-vm:~# python3 server3.py
Server is waiting to recieve 2 connections....

Accepted first connection, calling it client X
```

```
"Node: h3"@mininet-vm
root@mininet-vm:~#
```

"Node: h1"@mininet-vm

```
root@mininet-vm:~# python3 client3.py
From Server: Client X connected
Input Message:▯
```

"Node: h2"@mininet-vm

```
root@mininet-vm:~# python3 server3.py
Server is waiting to recieve 2 connections....

Accepted first connection, calling it client X
Accepted second connection, calling it client Y

Waiting to recieve messages from client X and client Y....
▯
```

"Node: h3"@mininet-vm

```
root@mininet-vm:~# python3 client3.py
From Server: Client Y connected
Input Message:▯
```

Input Messages, X First:

```
"Node: h1"@mininet-vm                                    —    □    ×
root@mininet-vm:~# python3 client3.py
From Server: Client X connected
Input Message:First_Message
From Server: X: First_Message recieved before Y: Second_Message
root@mininet-vm:~# []
```

```
"Node: h2"@mininet-vm                                    —    □    ×
root@mininet-vm:~# python3 server3.py
Server is waiting to recieve 2 connections....

Accepted first connection, calling it client X
Accepted second connection, calling it client Y

Waiting to recieve messages from client X and client Y....
Client X sent message 1: First_Message
Client Y sent message 2: Second_Message
Waiting a bit for clients to close their Connections
Done
root@mininet-vm:~# []
```

```
"Node: h3"@mininet-vm                                    —    □    ×
root@mininet-vm:~# python3 client3.py
From Server: Client Y connected
Input Message:Second_Message
From Server: X: First_Message recieved before Y: Second_Message
root@mininet-vm:~# []
```

```
"Node: h1"@mininet-vm                                    —    □    ×
root@mininet-vm:~# python3 client3.py
From Server: Client X connected
Input Message:First_Message
[]
```

```
"Node: h2"@mininet-vm                                    —    □    ×
root@mininet-vm:~# python3 server3.py
Server is waiting to recieve 2 connections....

Accepted first connection, calling it client X
Accepted second connection, calling it client Y

Waiting to recieve messages from client X and client Y....
Client X sent message 1: First_Message
[]
```

```
"Node: h3"@mininet-vm                                    —    □    ×
root@mininet-vm:~# python3 client3.py
From Server: Client Y connected
Input Message:[]
```

Input Messages, Y First:

"Node: h1"@mininet-vm

```
root@mininet-vm:~# python3 client3.py
From Server: Client X connected
Input Message:
```

"Node: h2"@mininet-vm

```
root@mininet-vm:~# python3 server3.py
Server is waiting to recieve 2 connections....

Accepted first connection, calling it client X
Accepted second connection, calling it client Y

Waiting to recieve messages from client X and client Y....
Client Y sent message 1: First_Message
```

"Node: h3"@mininet-vm

```
root@mininet-vm:~# python3 client3.py
From Server: Client Y connected
Input Message:First_Message
```

"Node: h1"@mininet-vm

```
root@mininet-vm:~# python3 client3.py
From Server: Client X connected
Input Message:Second_Message
From Server: Y: First_Message recieved before X: Second_Message
root@mininet-vm:~#
```

"Node: h2"@mininet-vm

```
root@mininet-vm:~# python3 server3.py
Server is waiting to recieve 2 connections....

Accepted first connection, calling it client X
Accepted second connection, calling it client Y

Waiting to recieve messages from client X and client Y....
Client Y sent message 1: First_Message
Client X sent message 2: Second_Message
Waiting a bit for clients to close their Connections
Done
root@mininet-vm:~#
```

"Node: h3"@mininet-vm

```
root@mininet-vm:~# python3 client3.py
From Server: Client Y connected
Input Message:First_Message
From Server: Y: First_Message recieved before X: Second_Message
root@mininet-vm:~#
```