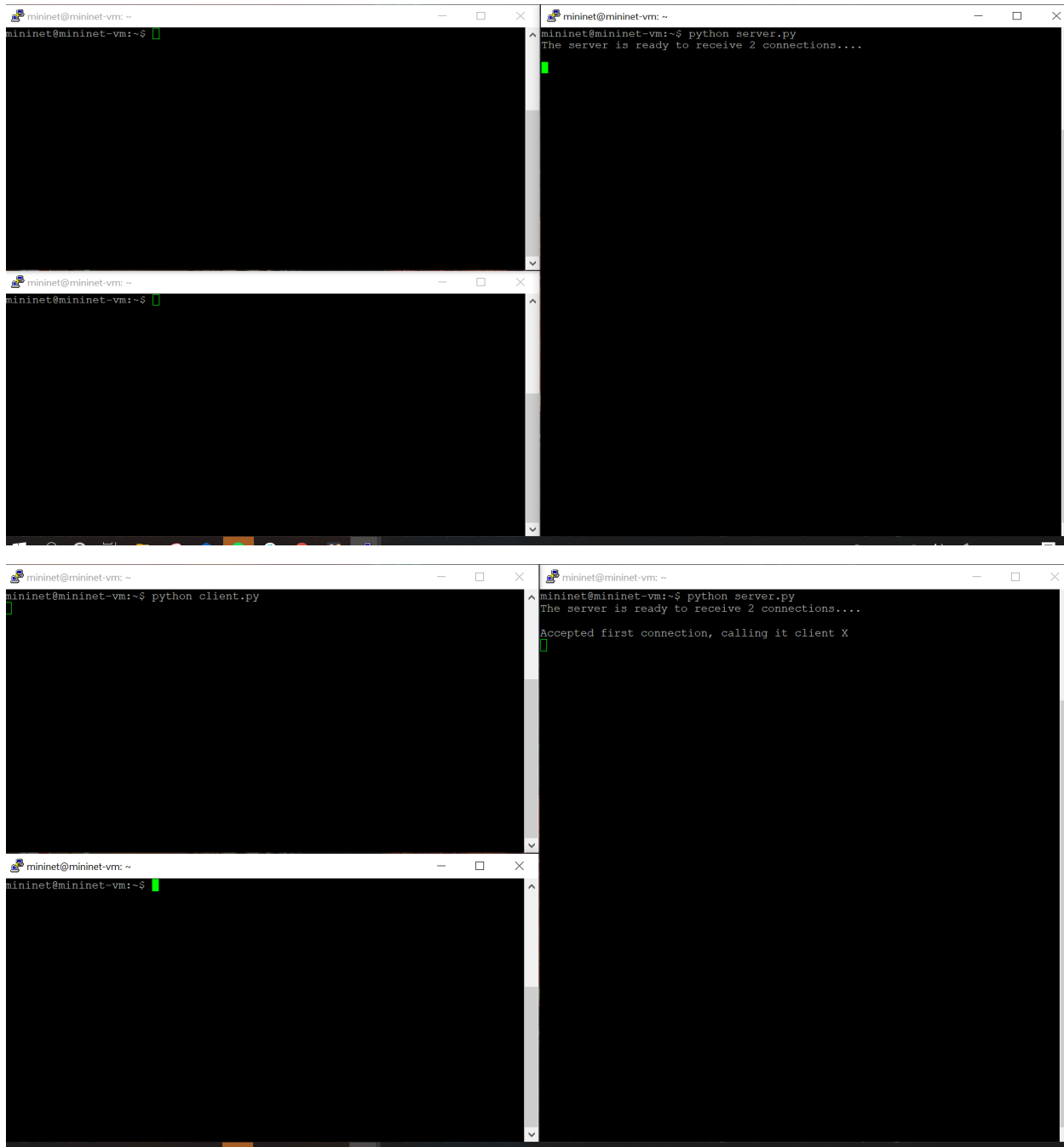


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Programming Assignment 3 - Output Screenshots

Connection Screenshots



The screenshot shows three terminal windows. The top-right window runs a server script that prints 'The server is ready to receive 2 connections....', 'Accepted first connection, calling it client X', 'Accepted second connection, calling it client Y', and 'Waiting to receive messages from client X and client Y....'. The top-left window runs a client script that prints 'From Server: Client X connected' and prompts for a message. The bottom-left window runs a client script that prints 'From Server: Client Y connected' and prompts for a message.

```
mininet@mininet-vm: ~  
mininet@mininet-vm:~$ python client.py  
From Server: Client X connected  
Enter message to send to server:   
  
mininet@mininet-vm:~$ python server.py  
The server is ready to receive 2 connections....  
  
Accepted first connection, calling it client X  
Accepted second connection, calling it client Y  
  
Waiting to receive messages from client X and client Y....  
  
mininet@mininet-vm:~$ python client.py  
From Server: Client Y connected  
Enter message to send to server: 
```

Case 1: When you type a message from Client X first:

This screenshot shows the same three terminal windows as before, but with additional output. The top-right window now shows 'Client X sent message 1: First_message'. The top-left window shows the user has entered 'First_message' in response to the prompt.

```
mininet@mininet-vm: ~  
mininet@mininet-vm:~$ python client.py  
From Server: Client X connected  
Enter message to send to server: First_message  
  
mininet@mininet-vm:~$ python server.py  
The server is ready to receive 2 connections....  
  
Accepted first connection, calling it client X  
Accepted second connection, calling it client Y  
  
Waiting to receive messages from client X and client Y....  
  
Client X sent message 1: First_message  
  
mininet@mininet-vm:~$ python client.py  
From Server: Client Y connected  
Enter message to send to server: 
```

```
mininet@mininet-vm: ~  
mininet@mininet-vm:~$ python client.py  
From Server: Client X connected  
Enter message to send to server: First_message  
From Server: X: First_message received before Y: Second_message  
mininet@mininet-vm:~$  
  
mininet@mininet-vm:~$ python server.py  
The server is ready to receive 2 connections....  
  
Accepted first connection, calling it client X  
Accepted second connection, calling it client Y  
  
Waiting to receive 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.  
mininet@mininet-vm:~$  
  
mininet@mininet-vm:~$ python client.py  
From Server: Client Y connected  
Enter message to send to server: Second_message  
From Server: X: First_message received before Y: Second_message  
mininet@mininet-vm:~$
```

Case 2: When you type a message from Client Y first:

```
mininet@mininet-vm: ~  
mininet@mininet-vm:~$ python client.py  
From Server: Client X connected  
Enter message to send to server:  
  
mininet@mininet-vm:~$ python server.py  
The server is ready to receive 2 connections....  
  
Accepted first connection, calling it client X  
Accepted second connection, calling it client Y  
  
Waiting to receive messages from client X and client Y....  
  
Client Y sent message 1: First_message  
  
mininet@mininet-vm:~$ python client.py  
From Server: Client Y connected  
Enter message to send to server: First_message
```

```
mininet@mininet-vm: ~  
mininet@mininet-vm:~$ python client.py  
From Server: Client X connected  
Enter message to send to server: Second_message  
From Server: Y: First message received before X: Second_message  
mininet@mininet-vm:~$
```

```
mininet@mininet-vm:~$ python server.py  
The server is ready to receive 2 connections....  
  
Accepted first connection, calling it client X  
Accepted second connection, calling it client Y  
  
Waiting to receive 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.  
mininet@mininet-vm:~$
```

```
mininet@mininet-vm: ~  
mininet@mininet-vm:~$ python client.py  
From Server: Client Y connected  
Enter message to send to server: First_message  
From Server: Y: First message received before X: Second_message  
mininet@mininet-vm:~$
```