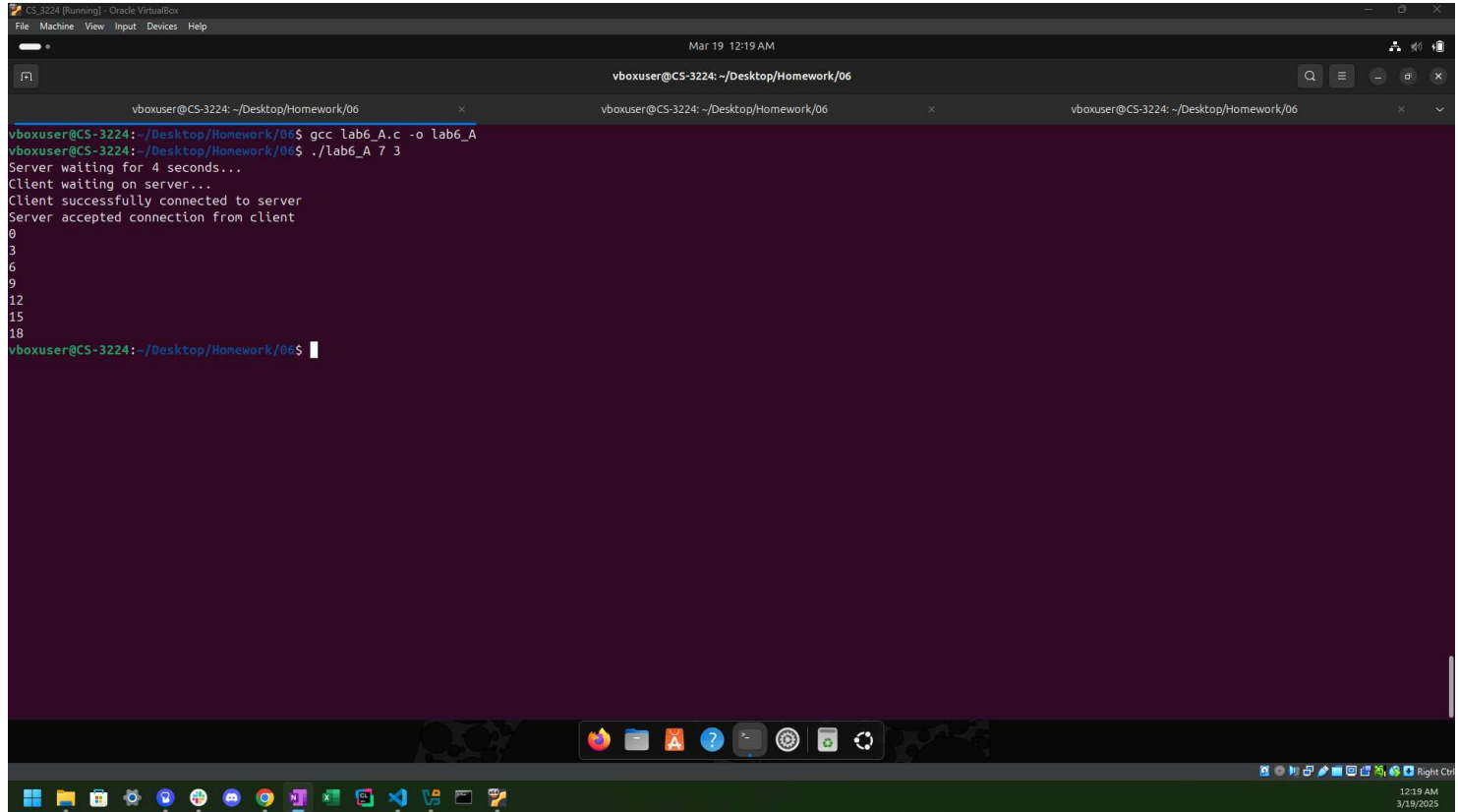


# Lab6

Monday, March 10, 2025 4:19 PM



```
CS-3224 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Mar 19 12:19 AM
vboxuser@CS-3224: ~/Desktop/Homework/06
vboxuser@CS-3224: ~/Desktop/Homework/06
vboxuser@CS-3224: ~/Desktop/Homework/06$ gcc lab6_A.c -o lab6_A
vboxuser@CS-3224: ~/Desktop/Homework/06$ ./lab6_A 7 3
Server waiting for 4 seconds...
Client waiting on server...
Client successfully connected to server
Server accepted connection from client
0
3
6
9
12
15
18
vboxuser@CS-3224:~/Desktop/Homework/06$
```

- a. Which of the calls above are blocking and which are not?
  - a. socket(): blocking
  - b. connect(): non-blocking
  - c. bind(): non-blocking
  - d. listen(): non-blocking
  - e. write(): blocking
  - f. read(): blocking
  - g. accept(): blocking
  - h. Close(): non-blocking
- b. Is this a form of direct communications or indirect communications?
  - a. This is an indirect form of communication since we are not sending messages directly to the process, but rather via a port (mailbox)
- c. What is the failure flag returned from connect() that indicates the server is not ready?
  - a. ECONNREFUSED if there is no server listening
  - b. ETIMEDOUT if the server is too busy to accept a new connection
- d. How would you change your program to communicate between processes in different machines?
  - a. In the client process, I would change the ip address and port to that of the remote server