

Final Version on last page

Version 1:

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatClient localhost 12122
connectSuccess: 0
Successfully Connected to host "localhost" with IP 127.0.0.1
Please enter your first name: Kabra
Server: Akash
Hi!
Server: Hello!
Server: How is your day?
Great! Thanks. How about yours?
Server: Same! This chatbox is so cool!
Haha! Yeah it is!
```

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatClient localhost 12122
connectSuccess: 0
Successfully Connected to host "localhost" with IP 127.0.0.1
Please enter your first name: Akash
Server: Kabra
Server: Hi!
Hello!
How is your day?
Server: Great! Thanks. How about yours?
Same! This chatbox is so cool!
Server: Haha! Yeah it is!
```

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatServer 12122
clientNum: 4
clientNum: 5
Akash
Kabra
Hi!
Hello!
How is your day?
Great! Thanks. How about yours?
Same! This chatbox is so cool!
Haha! Yeah it is!
```

Version 2:

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatClient localhost 12122
Successfully Connected to host "localhost" with IP 127.0.0.1
Please enter your first name: Akash
Connected to Kabra

Kabra: Hi Akash!
Hi Kabra! How are you?
Kabra: I'm great, how about you?
Same. Wow, ChatBox is different now! It has few more details and I can even see
your name before your message
Kabra: Yeah! I like that I can see your name as well. Awesome.
Kabra: Anyways, I'm now ending the chat.
Bye!
Other user disconnected.. Ending program now.
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$
```

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatClient localhost 12122
Error: Connection to host "localhost" with IP 127.0.0.1 failed
Trying again in 5 seconds...
Successfully Connected to host "localhost" with IP 127.0.0.1
Please enter your first name: Kabra
Connected to Akash

Hi Akash!
Akash: Hi Kabra! How are you?
I'm great, how about you?
Akash: Same. Wow, ChatBox is different now! It has few more details and I can ev
en see your name before your message
Yeah! I like that I can see your name as well. Awesome.
Anyways, I'm now ending the chat.
Akash: Bye!
^C Ctrl+C was pressed. Client shutting down...
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$
```

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatServer 12122
clientNum: 4 connected!
clientNum: 5 connected!
Client number 5 disconnected.
Client number 4 disconnected.
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$
```

Version 2 ERROR Reports:

- When two clients are already connected, and a third client tries to connect.

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatClient localhost 12122
Fatal Error: Failed to connect. (Two clients already connected.)
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$
```

- Bad hostname

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatClient randomName 12122
Fatal Error: getaddrinfo: Name or service not known
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$
```

- Client's port number doesn't match server

```
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$ ./chatClient localhost 12
Error: Connection to host "localhost" with IP 127.0.0.1 failed
Trying again in 5 seconds...
Error: Connection to host "localhost" with IP 127.0.0.1 failed
Trying again in 5 seconds...
Error: Connection to host "localhost" with IP 127.0.0.1 failed
Trying again in 5 seconds...
Error: Connection to host "localhost" with IP 127.0.0.1 failed
Trying again in 5 seconds...
Error: Connection to host "localhost" with IP 127.0.0.1 failed
Trying again in 5 seconds...
^C
akash_kab@AKASH:~/Desktop/Side_Projects/ChatBox$
```


Final Version:**Server:**

```
[amk351@top ~]$ ./chatServer 12122
clientNum: 4 connected!
clientNum: 5 connected!
Client 6 tried to connect, but failed because 2 clients already connected.
Client number 5 disconnected.
Client number 4 disconnected.
[amk351@top ~]$
```

Clients:

```
akash_kab@AKASH:~/Desktop$ ./chatClient top.cs.rutgers.edu 12122
Successfully Connected to host "top.cs.rutgers.edu" with IP 128.6.13.179
Please enter your first name: Kabra
Connected to Akash

Hi Akash!
Akash: Hello Kabra, nice weather today
For sure!
Hope you're having a great day.
Akash: Thanks! Hope you are too.
Akash: This chatbox thing is so cool! It's totally private and no one can see our
messages besides us! Especially since we're also hosting the server!
Thats true. Since one of us is running the server, our chat is pretty secure.

Akash: Lol, did you send a blank message haha :D
Lol yup! Anyways, gotta run. Talk to you again on chatbox later!
Akash: Bye Kabra!
^C^C was pressed. Client shutting down...
akash_kab@AKASH:~/Desktop$
```

```
akash_kab@AKASH:~/Desktop$ ./chatClient top.cs.rutgers.edu 12122
Successfully Connected to host "top.cs.rutgers.edu" with IP 128.6.13.179
Please enter your first name: Akash
Connected to Kabra

Kabra: Hi Akash!
Hello Kabra, nice weather today
Kabra: For sure!
Kabra: Hope you're having a great day.
Thanks! Hope you are too.
This chatbox thing is so cool! It's totally private and no one can see our messages
besides us! Especially since we're also hosting the server!
Kabra: Thats true. Since one of us is running the server, our chat is pretty secure.
Kabra:
Lol, did you send a blank message haha :D
Kabra: Lol yup! Anyways, gotta run. Talk to you again on chatbox later!
Bye Kabra!
Server Message: Other user disconnected.. Ending program now.
akash_kab@AKASH:~/Desktop$
```

```
akash_kab@AKASH:~/Desktop$ ./chatClient top.cs.rutgers.edu 12122
Fatal Error: Failed to connect. (Two clients already connected.)
akash_kab@AKASH:~/Desktop$
```