

IT TESTING REPORT

IT_TEST_CASE-01 : Client started before the server

```
Jonas Edward@LAPTOP-3BICFCE0 ~/InstantChatters/CUT/Code/bin
$ ./client.exe 8080
Please enter your name: Jonas
ERROR: connect
```

IT_TEST_CASE-02: When number of arguments is less than 2 , User has not provided port number for server or client.

```
USER@DESKTOP-DI40DVI ~/I
$ ./server.exe
Usage: ./server <port>
```

```
USER@DESKTOP-DI40DVI ~/I
$ ./client.exe
Usage: ./client <port>
```

IT_TEST_CASE-03: When User provides port number at the time of execution.

```
USER@DESKTOP-DI40DVI ~/InstantCha
$ ./server.exe 8080
=== WELCOME TO THE CHATROOM ===
```

```
USER@DESKTOP-DI40DVI ~/InstantCha
$ ./client.exe 8080
Please enter your name: Licency
```

IT_TEST_CASE-04: Writing failed because there are no processes which could read from the pipe.

```
ERROR: write to descriptor failed: Broken pipe
ERROR: -1
```

IT_TEST_CASE-05: If the socket is not properly closed or the address is already in use

```
USER@DESKTOP-DI40DVI ~/InstantChatters/CUT/Code/bin
$ ./server.exe 8080
ERROR: Socket binding failed: Address already in use
```

IT_TEST_CASE-06: If number of clients exceeded MAX_CLIENTS

```
$ ./server.exe 8000
=== WELCOME TO THE CHATROOM ===

Active users list is from queue Add :
Max clients reached. Rejected: 127.0.0.1:43736
```

IT_TEST_CASE-07: Taking note of joining and leaving users.

```
Jonas Edward@LAPTOP-3BICFCE0 ~/InstantChatters/CUT/Code/src
$ ./a.exe 8080
=== WELCOME TO THE CHATROOM ===

Active users are :
clients credential = Jonas : Edward

Active users are : Jonas
clients credential = Laxmikanth: 1234

Jonas has left

Active users are : Laxmikanth
Laxmikanth has left

Active users are :
Aborted (core dumped)
```

IT_TEST_CASE-08: Chat history of the active server session will be stored in the logfile.txt file

```
$ ./client.exe 8080
Please enter your name: user11
=== WELCOME TO THE CHATROOM ===
> Enter the pass now user11 :> pass11
> user11 are you a new or old user? Please give 'o' or 'n' only : > n
> user11 Thanks for credentials , Enjoy chatting !!!
> How are you??
> user15: I am fine.
> user15: Thank you for asking
> Most welcome
```

```
$ ./client.exe 8080
Please enter your name: user15
=== WELCOME TO THE CHATROOM ===
> Enter the pass now user15 :> pass15
> user15 are you a new or old user? Please give 'o' or 'n' only :
> n
> user15 Thanks for credentials , Enjoy chatting !!!
> user11: How are you??
> I am fine.
> Thank you for asking
> user11: Most welcome
```

```
$ cat logfile.txt
user2: hey
user1: hello
user2: how are you
user1: Good
user1: And what about you?
user2: I'm good.
user2: Ok. Talk to you later
user1: Bye
user3: Good to see you
user4: Yeah
user5: Hello again
user4: Hii all
user3: How is everything going?
user5: Everything is going on smoothly
user4: Good to know
user55: Hey user20
user20: Hello bro
user55: Having fun?
user20: Yeah! very much
user11: How are you??
user15: I am fine.
user15: Thank you for asking
user11: Most welcome
```