

# ECEN 602 Network Programming Assignment 1. - Test case report

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(1) line of text terminated by a new line.  
The following screen shot is the result when “abc\n” was typed in.

```
[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1> (23:28:58 09/16/23) [kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1> (23:29:04 09/16/23)
:: ./server 3491 :: ./client 127.0.0.1 3491
argument check passed. Enter the string: abc
Socket created. Client Sending: abc
Socket binded.
Server happens to listen on port 3491...
accept function called.
Child process created with PID: 14464
Received from client: abc
Recieved from server: abc
Enter the string: █
```

(2) line of text the maximum line length without a new line.

The maximum line number is set as 10 in the code.  
The following screen shot is the result when “Howdy, World!!!” was typed in.

```
[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1> (23:29:35 09/16/23) [kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1> (23:29:31 09/16/23)
:: ./server 3491 :: ./client 127.0.0.1 3491
argument check passed. Enter the string: Howdy, World!!!
Socket created. Client Sending: Howdy, Wo
Socket binded. Recieved from server: Howdy, Wo
Server happens to listen on port 3491... Enter the string: Client Sending: rld!!!
accept function called.
Child process created with PID: 14989
Received from client: Howdy, Wo
Received from client: rld!!!
Recieved from server: rld!!!
Enter the string: █
```

(3) line with no characters and EOF

```
[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1> (23:30:20 09/16/23) [kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1> (23:30:15 09/16/23)
:: ./server 3491 :: ./client 127.0.0.1 3491
argument check passed. Enter the string:
Socket created. Client Sending:
Socket binded.
Server happens to listen on port 3491...
accept function called.
Child process created with PID: 15603
Received from client:
Recieved from server:
Enter the string: █
```

#### (4) client terminated after entering text

The following screen shot is the result of sending a string “client terminated after entering text” and closing the client by ctrl+D (EOF).

<pre>[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1&gt; (23:34:13 09/16/23) :: ./server 3491 argument check passed. Socket created. Socket binded. Server happens to listen on port 3491... accept function called. Child process created with PID: 18664 Received from client: client te Received from client: rminated Received from client: after sen Received from client: ding text Received from client: Client disconnected.</pre>	<pre>[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1&gt; (23:30:52 09/16/23) :: ./client 127.0.0.1 3491 Enter the string: client terminated after sending text Client Sending: client te Recieved from server: client te Enter the string: Client Sending: rminated Recieved from server: rminated Enter the string: Client Sending: after sen Recieved from server: after sen Enter the string: Client Sending: ding text Recieved from server: ding text Enter the string: Client Sending: Recieved from server: Enter the string: EOF detected. EOF detected from stdin. Closing connection.</pre>
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#### (5) three clients connected to the server

<pre>[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1&gt; (23:15:40 09/16/23) :: ./server 3491 argument check passed. Socket created. Socket binded. Server happens to listen on port 3491... accept function called. Child process created with PID: 47634 accept function called. Child process created with PID: 47709 accept function called. Child process created with PID: 48172 Received from client: CLIENT 1 Received from client: CLIENT2 Received from client: CLIENT 3</pre>	<pre>[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1&gt; (23:15:36 09/16/23) :: ./client 127.0.0.1 3491 Socket created. Connected to the server.Enter the string: CLIENT 1 Client Sending: CLIENT 1 writen loop start. writen function finished. readline loop start. readline function finished. Recieved from server: CLIENT 1 Enter the string:</pre>
	<pre>[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1&gt; (23:16:28 09/16/23) :: ./client 127.0.0.1 3491 Socket created. Connected to the server.Enter the string: CLIENT2 Client Sending: CLIENT2 writen loop start. writen function finished. readline loop start. readline function finished. Recieved from server: CLIENT2 Enter the string:</pre>
	<pre>[kdu1113]@hera3 ~/ECEN602_Network/ECEN602_Team07/MP1&gt; (23:02:24 09/16/23) :: ./client 127.0.0.1 3491 Socket created. Connected to the server.Enter the string: CLIENT 3 Client Sending: CLIENT 3 writen loop start. writen function finished. readline loop start. readline function finished. Recieved from server: CLIENT 3 Enter the string:</pre>