

## Testing Document

Corresponding test screenshots are below the table, linked to the test number.

Test No	Input	Expected Output	Actual Output
1	./client	Error: could not connect	As expected
2	./server	Waiting for an incoming connection...	As expected
3	./client	Server: connection accepted Client: menu shown	As expected
4	0	Menu re-shown	As expected
5	1	My name and student ID prefixed by the IP address of the server	As expected
6	2	Server time sent to the client and displayed	As expected
7	3	Information about the server is send as a utsname struct to the client and displayed	As expected
8	4	Filenames from the directory that the server file is residing in sent to client.	As expected
9	6	Error displayed as no option for that input, re-prompt for valid option.	As expected
10	5	Goodbye message sent, client application closes and server thread exits	As expected
11	Ctrl + c (on server)	Server exits with message informing user of runtime of the server	As expected

Test No	Screenshot
1	<pre>student@osboxes ~/Desktop/CProgramming/cwk/cwk2_skeleton/client \$ ./cl Error - connect failed: Connection refused student@osboxes ~/Desktop/CProgramming/cwk/cwk2_skeleton/client \$</pre>
2	<pre>student@osboxes ~/Desktop/CProgramming/cwk/cwk2_skeleton/server \$ ./se waiting for incoming connections... waiting for a client to connect...</pre>
3	<pre>student@osboxes ~/Desktop/CProgramming/cwk/cwk2_skeleton/client \$ ./cl Connected to server... 0. Display menu 1. Get student ID 2. Get server time 3. Get server uname data 4. Get files in servers working directory 5. Exit option&gt;</pre>
4	<pre>option&gt; 0 0. Display menu 1. Get student ID 2. Get server time 3. Get server uname data 4. Get files in servers working directory 5. Exit option&gt;</pre>
5	<pre>option&gt; 1 192.168.146.129---Kevin Gray   S1715611 option&gt;</pre>
6	<pre>option&gt; 2 Server time: Mon Dec 11 03:32:03 2017 option&gt;</pre>
7	<pre>option&gt; 3 Third option chosen... Nodename:   osboxes Sysname:    Linux Release:    3.19.0-32-generic Version:    #37~14.04.1-Ubuntu SMP Thu Oct 22 09:41:40 UTC 2015 Machine:    x86_64 option&gt;</pre>

8	<pre>option&gt; 4 Directories in server folder: .. Makefile rdwrn.h rdwrn.o server.c rdwrn.c server server.o .  option&gt; █</pre>	
9	<pre>option&gt; 6 Invalid choice - 0 displays options...! option&gt; █</pre>	
10	<pre>option&gt; 5 Goodbye! student@osboxes ~/Desktop/CProgramming/cwk/cwk2_skeleton/client \$ █ call 4th method Thread 139906555094784 exiting (on server)</pre>	
11	<pre>^C Captured &lt;ctrl + c&gt; Server runtime: 616.580990 seconds student@osboxes ~/Desktop/CProgramming/cwk/cwk2_skeleton/server \$ █</pre>	