COMP 7005 Assignment 2 Testing

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Test 1	3
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Test 6	4
Test 7	5
Test 8	5
Test 9	6

Test	Expected	Actual	Screenshot
No arguments	fail	fail	Test 1
Too many arguments	fail	fail	Test 2
Invalid IPv4/IPv6 address	fail	fail	Test 3
Wrong server IPv4/IPv6	fail	fail	Test 4
Empty file	fail	fail	Test 5
Missing file	fail	fail	Test 6
File with only spaces	pass	pass	Test 7
Valid file with limited characters	pass	pass	Test 8
Valid big file	pass	pass	Test 9
Sending data via IPv6 address	pass	pass	Test 10
Sending data from a different system	pass	pass	<u>Test 11</u>
Sending multiple connections concurrently via threads	pass	pass	Test 12

Tests

Test 1

wonton@wonton-IdeaPad-Slim-7-14ITL05:~/work/comp7005/Assignment 2: Network Sockets\$ python3 ./source/client.py
Error: Invalid number of arguments
wonton@wonton-IdeaPad-Slim-7-14ITL05:~/work/comp7005/Assignment 2: Network Sockets\$

Test 2

wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets \$ python3 ./source/client.py test.txt 0.0.0.0 extra Error: Invalid number of arguments wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets \$ wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets \$

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wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets python3 ./source/client.py test.txt notAnAddress

Error: Invalid IP Address found.
wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets$
```

Test 4

```
wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets python3 ./source/client.py test.txt 100.100.100.100

Error: Failed to connect to socket wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets
```

Test 5

```
wonton@wonton-IdeaPad-Slim-7-14ITLO5: ~/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-IdeaPad-Slim-7-14ITLO5: ~/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-IdeaPad-Slim-7-14ITLO5: ~/work/comp7005/Assignment 2: Network Sockets python3 ./source/client.py test.txt 10.0.0.34

Error: File is empty.
wonton@wonton-IdeaPad-Slim-7-14ITLO5: ~/work/comp7005/Assignment 2: Network Sockets |
```

Test 6

```
wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-ideaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets python3 ./source/client.py missing.txt 10.0.0.34

Error: File 'missing.txt' not found.
wonton@wonton-IdeaPad-Slim-7-14ITL05: -/work/comp7005/Assignment 2: Network Sockets
```

```
wonton@wonton-IdeaPad-Slim-7-14ITL05:~/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-IdeaPad-Slim-7-14ITL05:~/work/comp7005/Assignment 2: Network Sockets × wonton@wonton-IdeaPad-Slim-7-14ITL05:~/work/comp7005/Assignment 2: Network Sockets python3 ./source/client.py test.txt 10.0.0.34

Received response
Word Count: 0
Character Count: 0
Character Frequencies:
wonton@wonton-IdeaPad-Slim-7-14ITL05:~/work/comp7005/Assignment 2: Network Sockets
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wonton@wonton-IdeaPad-Slim-7-14ITL05: ~/work/comp7005/Assignment 2: Network Sockets > wowton@wonton-IdeaPad-Slim-7-14ITL05: ~/work/comp7005/Assignment 2: Network Sockets > python3 ./source/server.py Server running on dual-stack mode (IPv4 and IPv6).

Server is listening on port 8080 for incoming connections...

Connection Received: ('::ffff:192.168.250.18', 35292, 0, 0)

Connection Received: ('::ffff:192.168.250.18', 35306, 0, 0)

Connection Received: ('::ffff:192.168.250.18', 35316, 0, 0)

Connection Received: ('::ffff:192.168.250.18', 35334, 0, 0)

Connection Received: ('::ffff:192.168.250.18', 35334, 0, 0)

Connection Received: ('::ffff:192.168.250.174', 53436, 0, 0)
```

```
wonton@wontonideaPadsUm-7-14ITL05:-/work/comp7005/Assignment 2: Network Sockets$ python3 ./source/thread_client.py 192.168.250.18

Received response

Wonton@wontonideaPadsUm-7-14ITL05:-/work/comp7005/Assignment 2: Network Sockets$ python3 ./source/thread_client.py 192.168.250.18

Received response

Word Count: 1

Character Frequencles:
1: 1

Received response

Word Count: 1

Character Count: 1

Character Count: 1

Character Frequencles:
2: 1

Received response

Word Count: 1

Character Count: 1

Character Count: 1

Character Frequencles:
3: 1

Received response

Word Count: 1

Character Count: 1

Character Count: 1

Character Frequencles:
3: 1

Received response

Word Count: 1

Character Frequencles:
5: 1

Received response

Word Count: 1

Character Frequencles:
5: 1

wonton@wonton-IdeaPad-Slin-7-14ITL05:-/work/comp7005/Assignment 2: Network Sockets$
```