COMP 7005
Assignment 1
Testing

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Client.py Tests

Test	Expected	Actual	Screenshot
No arguments	fail	fail	Test 1
Valid Socket Path, Valid File Path	pass	pass	Test 2
No Socket Path, Valid File Path	fail	fail	Test 3
Valid Socket Path, No File Path	fail	fail	Test 4
Invalid socket path, valid file path	fail	fail	Test 5
Invalid socket path, invalid file path	fail	fail	Test 6
Too many arguments	fail	fail	Test 7
Client sends a valid request and closes the socket	pass	pass	Test 8
Client handles server shutdown gracefully	pass	pass	Test 9

Server.py tests

Test	Expected	Actual	Screenshot
No arguments	fail	fail	Test 10
Valid Socket Path	pass	pass	Test 11
Invalid Socket Path	fail	fail	Test 12
Too many arguments	fail	fail	Test 13
Server accepts a valid client connection	pass	pass	Test 14
Server starts and listens for incoming connections	pass	pass	Test 15
Server shuts down gracefully on KeyboardInterrupt	pass	pass	Test 16

Tests

Test 1

```
[andyt@LenovoPC src]$ python client.py
usage: client.py [-h] -s SOCKET -f FILE
client.py: error: the following arguments are required: -s/--socket, -f/--file
[andyt@LenovoPC src]$
```

Test 2

```
[andyt@LenovoPC src]$ python client.py -s /tmp/unixsocket -f "/home/andyt/Documents/COMP7005/COMP70
05_Assign1/README.md"
Connected to the server.
Server response: File exists.
```

Test 3

```
[andyt@LenovoPC src]$ python client.py -s  -f "/home/andyt/Documents/COMP7005/COMP7005_Assign1/READ
ME.md"
usage: client.py [-h] -s SOCKET -f FILE
client.py: error: argument -s/--socket: expected one argument
[andyt@LenovoPC src]$
```

Test 4

```
[andyt@LenovoPC src]$ python client.py -s /tmp/unixsocket -f
usage: client.py [-h] -s SOCKET -f FILE
client.py: error: argument -f/--file: expected one argument
```

Test 5

```
[andyt@LenovoPC src]$ python client.py -s invalidpath/test_socket -f /file/notexist
Error: Socket path 'invalidpath/test_socket' does not exist. Please provide a valid socket path.
```

Test 6

```
[andyt@LenovoPC src]$ python client.py -s /tunixsocket -f asdfasdf
Error: Socket path '/tunixsocket' does not exist. Please provide a valid socket path.
[andyt@LenovoPC src]$
```

Test 7

```
[andyt@LenovoPC src]$ python client.py -s /tmp/unixsocket -f /asdfasdf another arg
usage: client.py [-h] -s SOCKET -f FILE
client.py: error: unrecognized arguments: another arg
```

Test 8

```
[andyt@LenovoPC src]$ python client.py -s /tmp/unixsocket -f "/home/andyt/Documents/COMP7005/COMP70
05_Assign1/README.md"
Connected to the server.
Server response: File exists.
```

Test 9

```
[andyt@LenovoPC src]$ python server.py -s /tmp/unixsocket
Server is listening...
Client connected.
Received file path: /home/andyt/Documents/COMP7005/COMP7005_Assign1/README.md
Client connection closed.
```

Test 10

```
[andyt@LenovoPC src]$ python server.py
Error: the following arguments are required: -s/--socket
usage: server.py [-h] -s SOCKET

options:
  -h, --help              show this help message and exit
  -s SOCKET, --socket SOCKET
                          Socket Path
[andyt@LenovoPC src]$
```

Test 11

```
[andyt@LenovoPC src]$ python server.py -s /tmp/unixsocket
Server is listening...
```

Test 12

```
[andyt@LenovoPC src]$ python server.py -s tmp/valid
Error: 'tmp/valid' is not a valid socket path. It must start with '/'.
```

Test 13

```
[andyt@LenovoPC src]$ python server.py -s /tmp/ unixsocket
Error: unrecognized arguments: unixsocket
usage: server.py [-h] -s SOCKET

options:
  -h, --help            show this help message and exit
  -s SOCKET, --socket SOCKET
                        Socket Path
```

Test 14

```
[andyt@LenovoPC src]$ ^C
[andyt@LenovoPC src]$ python client.py -s /tmp/unixsocket -f /home/andyt/Documents/COMP7005/COMP700
5_Assign1/source/README.md
connected to the server.
Server response: File exists.
[andyt@LenovoPC src]$ ^C
```

```
[andyt@LenovoPC src]$ python server.py -s /tmp/unixsocket
Server is listening...
Client connected.
Received file path: /home/andyt/Documents/COMP7005/COMP7005_Assign1/source/REA
DME.md
Client connection closed.
```

Test 15

```
[andyt@LenovoPC src]$ python server.py -s /tmp/unixsocket
Server is listening...
```

Test 16

```
[andyt@LenovoPC src]$ python server.py -s /tmp/unixsocket
Server is listening...
^CServer shutting down.
[andyt@LenovoPC src]$
```