Mehdi Merali

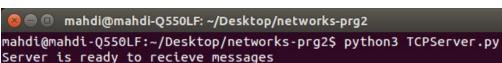
Program 2 Design Document

- Created client in Python because it was easy to implement and I wanted to play with pythons socket library.
- Server code will create server socket and loop through connections. Once 2 connections
 are received, it will send acknowledgements and print messages received. Then, it
 breaks its loop and terminates
 - Server includes extra print statements when it is connecting. I thought they were helpful so I left them in the program
- ClientX and ClientY code are essentially identical besides their messages
- Clients create socket, then send message to server and wait for ACK message. Once ACK is recieved, they print ACK message and set flag to break loop and terminate.
- Improvements:
 - Style could be changed to be cleaner
 - More exception handling
- NOTE: Must run program using Python 3 or will have compiler errors

Running Program:

- Navigate to correct directory
- Start server in backgraound using *python3 TCPServer.py*
- Run clients using the following in any order:
 - \$ python3 clientX.py
 - \$ python3 clientY.py

Below is a sample output of the program



Waiting for connection

connected with: 127.0.0.1:42508

Waiting for connection

connected with: 127.0.0.1:42510

Client X: Alice Client Y: Bob

Sent acknowledgment to both X and Y

mahdi@mahdi-Q550LF:~/Desktop/networks-prg2\$ _

mahdi@mahdi-Q550LF: ~/Desktop/networks-prg2

mahdi@mahdi-Q550LF:~/Desktop/networks-prg2\$ python3 clientX.py

X: Alice recieved before Y:Bob

mahdi@mahdi-Q550LF:~/Desktop/networks-prg2\$

🔞 🖨 🗊 mahdi@mahdi-Q550LF: ~/Desktop/networks-prg2

mahdi@mahdi-Q550LF:~/Desktop/networks-prg2\$ python3 clientY.py

X: Alice recieved before Y:Bob

mahdi@mahdi-Q550LF:~/Desktop/networks-prg2\$