Name: Srujan R Roll No: BT18CSE041

CN Assignment: 3

Details about files

- client.py: contains the code for client to make requests to the server; initially sends a message about the length of the question it is sending and then sends the actual message; upon closing it disconnect message sent to server to close the connection
- server1.py: single process server which handles a single client at a time
- server2.py : multithreaded server which handles multiple clients concurrently using threads
- server3.py : single process server handling multiple clients using select() method
- server4.py: single process ECHO server handling multiple clients using select() method

To execute

Note: Please execute the codes in windows command line as I have used signal handling which would give errors in linux terminal

1. First start the server : python servername.py IP_address port_number For eg : python server1.py 127.0.0.1 5000

Note: For TCP, ports 1-1023 are by default privileged ports. So avoid using those port numbers.

- 2. To run client and make request: python client.py IP_address port_number For eg: python client.py 127.0.0.1 5000
- 3. Give an integer equation having 2 operands that needs to be evaluated and the server will send back the answer or the error encountered.

Features

- Taking in 2 messages from client to determine the length of message the client wants to send. This reduces the number of bytes being received at server.
- Appropriate errors are sent to client. Exceptions are handled properly for the both socket and string handling lines of code.

Output Snippets







