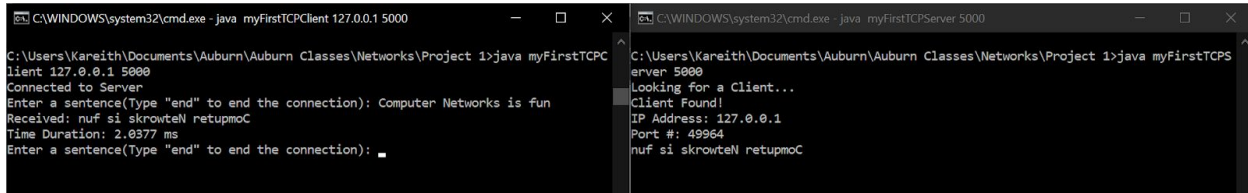


Programing Report 1

TCP

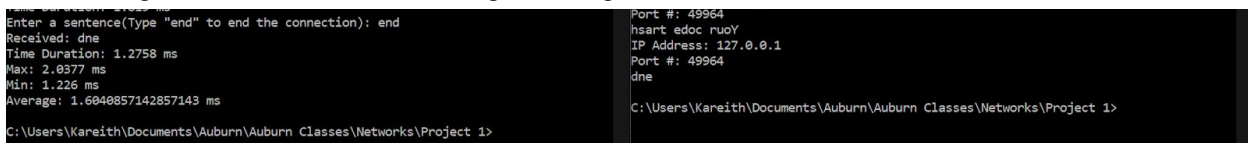
All programs work as intended. To run the TCP server you first run `javac myFirstTCPServer.java` and then run `java myFirstTCPServer [port]`. The port I used was 5000. Then you need to run the TCP client. To do this you must run `javac myFirstTCPClient.java` in another cmd window. Then you must run `java myFirstTCPServer [hostname/ip] [port]`. I used 127.0.0.1 for my host and again 5000 for my port.

When entering the sentence "Computer Networks is fun." We get this output:



The screenshot shows two side-by-side command prompt windows. The left window is titled "C:\WINDOWS\system32\cmd.exe - java myFirstTCPClient 127.0.0.1 5000" and contains the following text:
C:\Users\Kareith\Documents\Auburn\Auburn Classes\Networks\Project 1>java myFirstTCPClient 127.0.0.1 5000
Connected to Server
Enter a sentence(Type "end" to end the connection): Computer Networks is fun
Received: nuf si skrowteN retupmoC
Time Duration: 2.0377 ms
Enter a sentence(Type "end" to end the connection):
The right window is titled "C:\WINDOWS\system32\cmd.exe - java myFirstTCPServer 5000" and contains the following text:
C:\Users\Kareith\Documents\Auburn\Auburn Classes\Networks\Project 1>java myFirstTCPServer 5000
Looking for a Client...
Client Found!
IP Address: 127.0.0.1
Port #: 49964
nuf si skrowteN retupmoC

After entering more sentences and the entering "end we get this:



This block shows the continuation of the command prompt windows. The left window shows:
Enter a sentence(Type "end" to end the connection): end
Received: dne
Time Duration: 1.2758 ms
Max: 2.0377 ms
Min: 1.226 ms
Average: 1.6040857142857143 ms
C:\Users\Kareith\Documents\Auburn\Auburn Classes\Networks\Project 1>
The right window shows:
Port #: 49964
hsart edoc ruoY
IP Address: 127.0.0.1
Port #: 49964
dne
C:\Users\Kareith\Documents\Auburn\Auburn Classes\Networks\Project 1>

UDP Report

After running 10 attempts the minimum round trip time was 0 ms. The maximum round trip time was 1 ms. The average round trip time was .4 ms.

My programs work.

To compile my programs I used: `javac myFirstUDPServer.java` and `javac myFirstUDPClient.java`

To run my Server I used: `java myFirstUDPServer 5000`

To run my Client I used: `java myFirstUDPClient localhost 5000`

