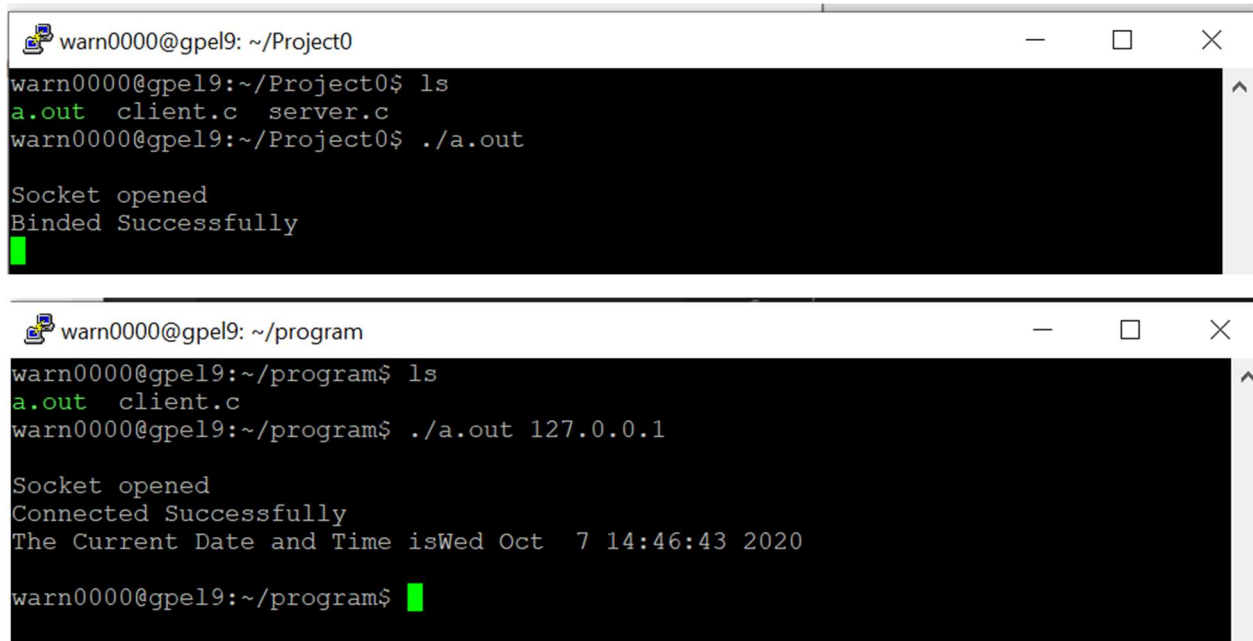


## Data Networks Project 0

### Part 1: Running client and server code on same machine.

After making the different directories and compiling the server.c and client.c files, I ran the following commands to verify that socket was working as intended. The below code is a general overview of the steps taken with the navigating of directories left out.

```
1. Mkdir program
2. Mkdir Project 0
3. Scp client.c warn0000@gpel9.cs.ou.edu:/home/warn0000/program
4. Gcc client.c
5. Gcc server.c
6. ./a.out
7. ./a.out 127.0.0.1
```



The image shows two terminal windows. The top window is titled 'warn0000@gpel9: ~/Project0' and shows the following commands and output:   
warn0000@gpel9:~/Project0\$ ls  
a.out client.c server.c  
warn0000@gpel9:~/Project0\$ ./a.out  
  
Socket opened  
Binded Successfully

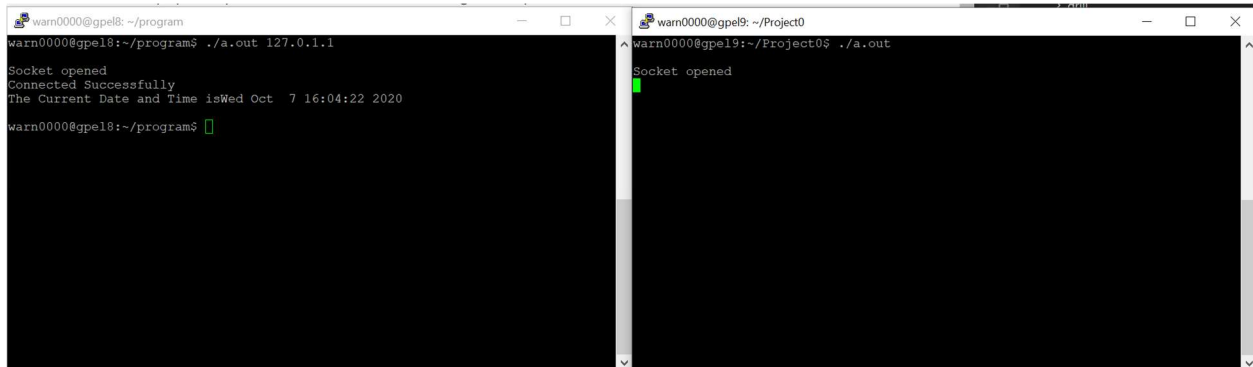
The bottom window is titled 'warn0000@gpel9: ~/program' and shows the following commands and output:   
warn0000@gpel9:~/program\$ ls  
a.out client.c  
warn0000@gpel9:~/program\$ ./a.out 127.0.0.1  
  
Socket opened  
Connected Successfully  
The Current Date and Time isWed Oct 7 14:46:43 2020  
warn0000@gpel9:~/program\$

### Part 2: Running the client and server code on different machines

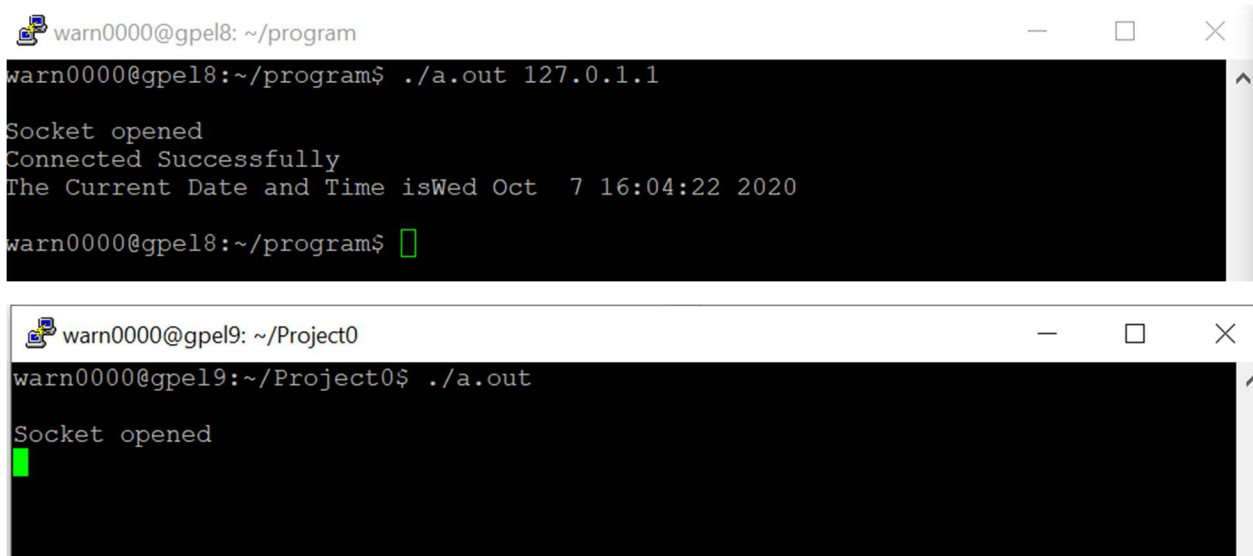
The following steps are essentially the same as before with the only exception being that it is run on two different machines

```
1. Mkdir program
2. Mkdir Project 0
3. Scp server.c warn0000@gpel9.cs.ou.edu:/home/warn0000/program
4. Scp client.c warn0000@gpel8.cs.ou.edu:/home/warn0000/program
```

5. `Hostname -i`
6. `Gcc client.c`
7. `Gcc server.c`
8. `./a.out`
9. `./a.out 127.0.1.1`



The image shows two terminal windows side-by-side. The left window is titled 'warn0000@gpe18: ~/program' and shows the command `./a.out 127.0.1.1` being executed. The output is: `Socket opened`, `Connected Successfully`, and `The Current Date and Time isWed Oct 7 16:04:22 2020`. The right window is titled 'warn0000@gpe19: ~/Project0' and shows the command `./a.out` being executed. The output is: `Socket opened`.



The image shows two terminal windows. The top window is titled 'warn0000@gpe18: ~/program' and shows the command `./a.out 127.0.1.1` being executed. The output is: `Socket opened`, `Connected Successfully`, and `The Current Date and Time isWed Oct 7 16:04:22 2020`. The bottom window is titled 'warn0000@gpe19: ~/Project0' and shows the command `./a.out` being executed. The output is: `Socket opened`.