

CENG 421
NETWORK PROGRAMMING

FINAL PROJECT

“Client Server Messaging Application”

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PROJECT DESCRIPTION:

In this project I build *Client Server Messaging Application*. Through the application, the user and the server can message each other.

LANGUAGES:

C and Python(python3) used in this project.

HOW TO COMPILE:

client.c “gcc client.c -o client”.

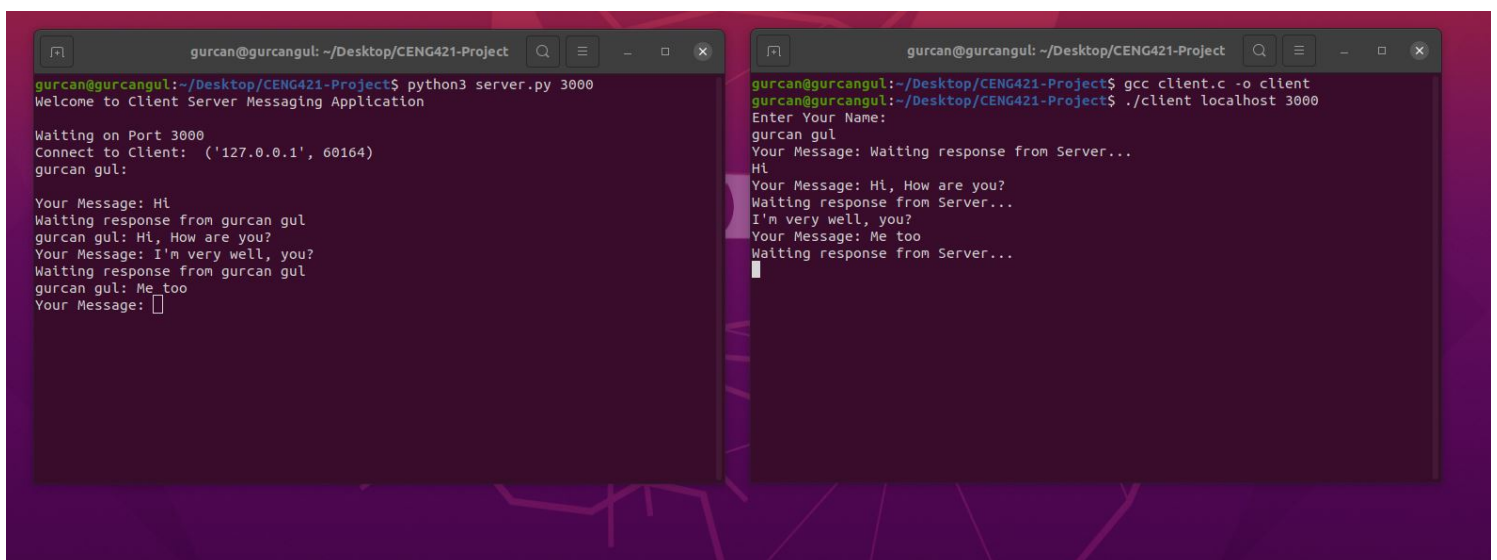
server.py does not have to be compiled.

HOW TO RUN:

Firstly server.py should be run with the following these command "python3 server.py //portNumber". Then,

Client.c should be run with the following these command "./client localhost portNumber ".

SCREENSHOTS:



```
gurcan@gurcangul: ~/Desktop/CENG421-Project
gurcan@gurcangul:~/Desktop/CENG421-Project$ python3 server.py 3000
Welcome to Client Server Messaging Application

Waiting on Port 3000
Connect to Client: ('127.0.0.1', 60164)
gurcan gul:

Your Message: Hi
Waiting response from gurcan gul
gurcan gul: Hi, How are you?
Your Message: I'm very well, you?
Waiting response from gurcan gul
gurcan gul: Me too
Your Message: What is your job?
Waiting response from gurcan gul
gurcan gul: I will be a computer engineer in 1 week. You, what do you do?
Your Message: I am only a server!
```

```
gurcan@gurcangul: ~/Desktop/CENG421-Project
gurcan@gurcangul:~/Desktop/CENG421-Project$ gcc client.c -o client
gurcan@gurcangul:~/Desktop/CENG421-Project$ ./client localhost 3000
Enter Your Name:
gurcan gul
Your Message: Waiting response from Server...
Hi
Your Message: Hi, How are you?
Waiting response from Server...
I'm very well, you?
Your Message: Me too
Waiting response from Server...
What is your job?
Your Message: I will be a computer engineer in 1 week. You, what do you do?
Waiting response from Server...
█
```

```
gurcan@gurcangul: ~/Desktop/CENG421-Project
gurcan@gurcangul:~/Desktop/CENG421-Project$ python3 server.py 3000
Welcome to Client Server Messaging Application

Waiting on Port 3000
Connect to Client: ('127.0.0.1', 60164)
gurcan gul:

Your Message: Hi
Waiting response from gurcan gul
gurcan gul: Hi, How are you?
Your Message: I'm very well, you?
Waiting response from gurcan gul
gurcan gul: Me too
Your Message: What is your job?
Waiting response from gurcan gul
gurcan gul: I will be a computer engineer in 1 week. You, what do you do?
Your Message: I am only a server!
Waiting response from gurcan gul
Connection is Terminated By Client

gurcan@gurcangul:~/Desktop/CENG421-Project$ █
```

```
gurcan@gurcangul: ~/Desktop/CENG421-Project
gurcan@gurcangul:~/Desktop/CENG421-Project$ gcc client.c -o client
gurcan@gurcangul:~/Desktop/CENG421-Project$ ./client localhost 3000
Enter Your Name:
gurcan gul
Your Message: Waiting response from Server...
Hi
Your Message: Hi, How are you?
Waiting response from Server...
I'm very well, you?
Your Message: Me too
Waiting response from Server...
What is your job?
Your Message: I will be a computer engineer in 1 week. You, what do you do?
Waiting response from Server...
I am only a server!
Your Message: quit
Terminating Connection
gurcan@gurcangul:~/Desktop/CENG421-Project$
```