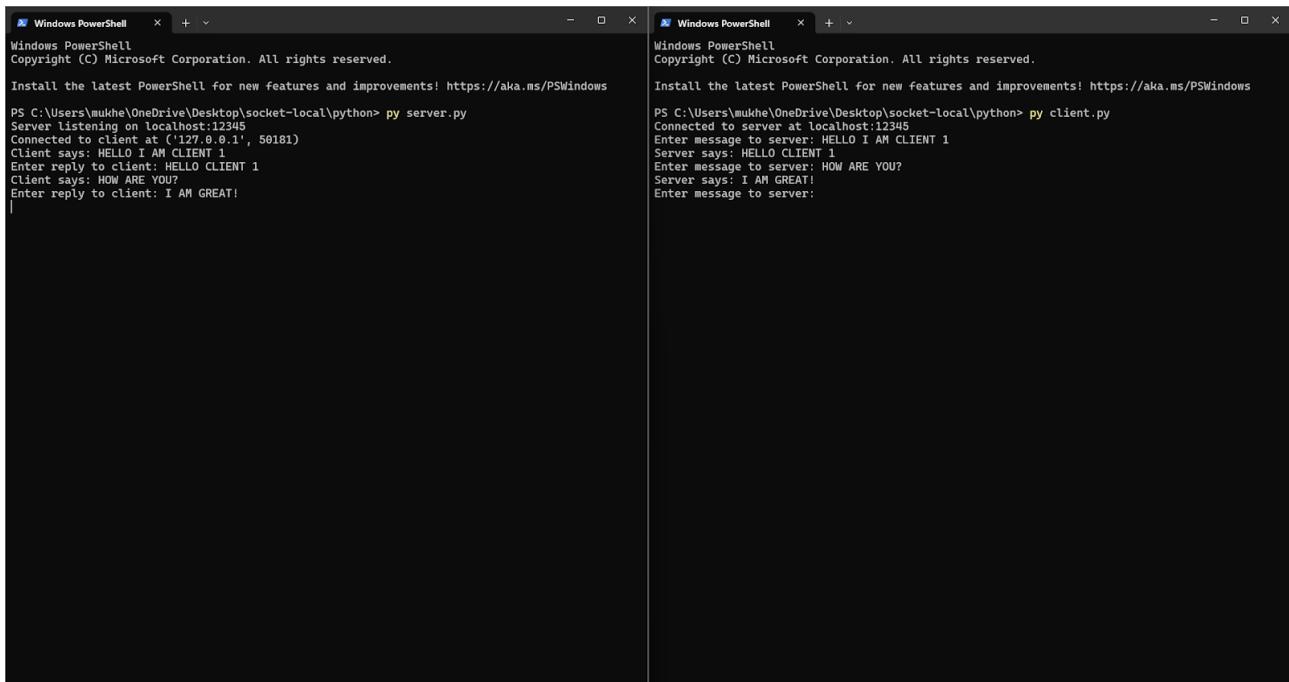


# CAPSTONE 4

**NAME:SHAIKH FARHAN**  
**REDG:2141006001**

## • SOCKET-LOCAL/PYTHON



```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

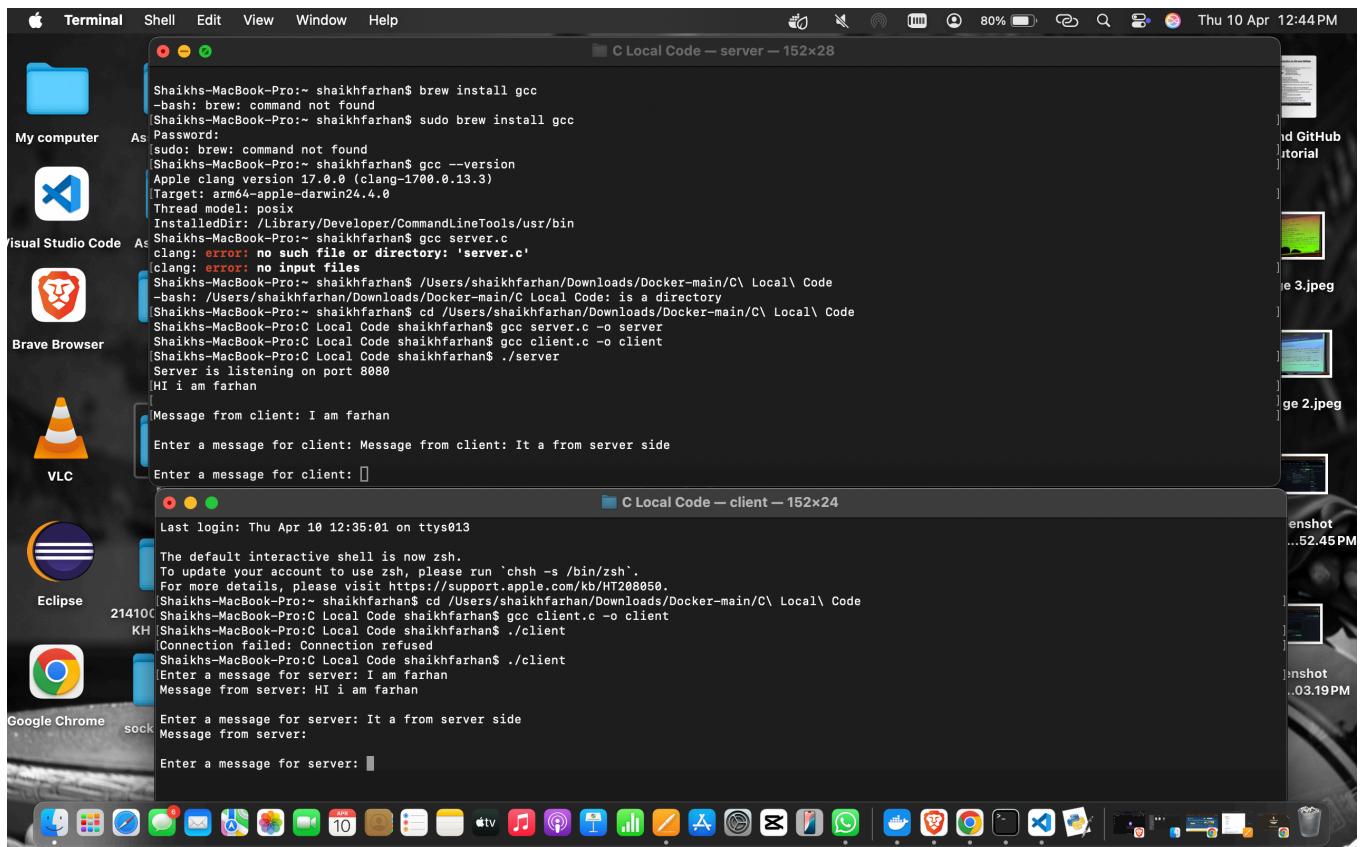
PS C:\Users\mukhe\OneDrive\Desktop\socket-local\python> py server.py
Server listening on localhost:12345
Connected to client at ('127.0.0.1', 50181)
Client says: HELLO I AM CLIENT 1
Enter reply to client: HELLO CLIENT 1
Client says: HOW ARE YOU?
Enter reply to client: I AM GREAT!
|
```

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\mukhe\OneDrive\Desktop\socket-local\python> py client.py
Connected to server at localhost:12345
Enter message to server: HELLO I AM CLIENT 1
Server says: HELLO CLIENT 1
Enter message to server: HOW ARE YOU?
Server says: I AM GREAT!
Enter message to server:
```

## • SOCKET-LOCAL/C



```
Terminal Shell Edit View Window Help
My computer
Visual Studio Code As Password:
Brave Browser
VLC
Eclipse
Google Chrome
Thu 10 Apr 12:44PM
```

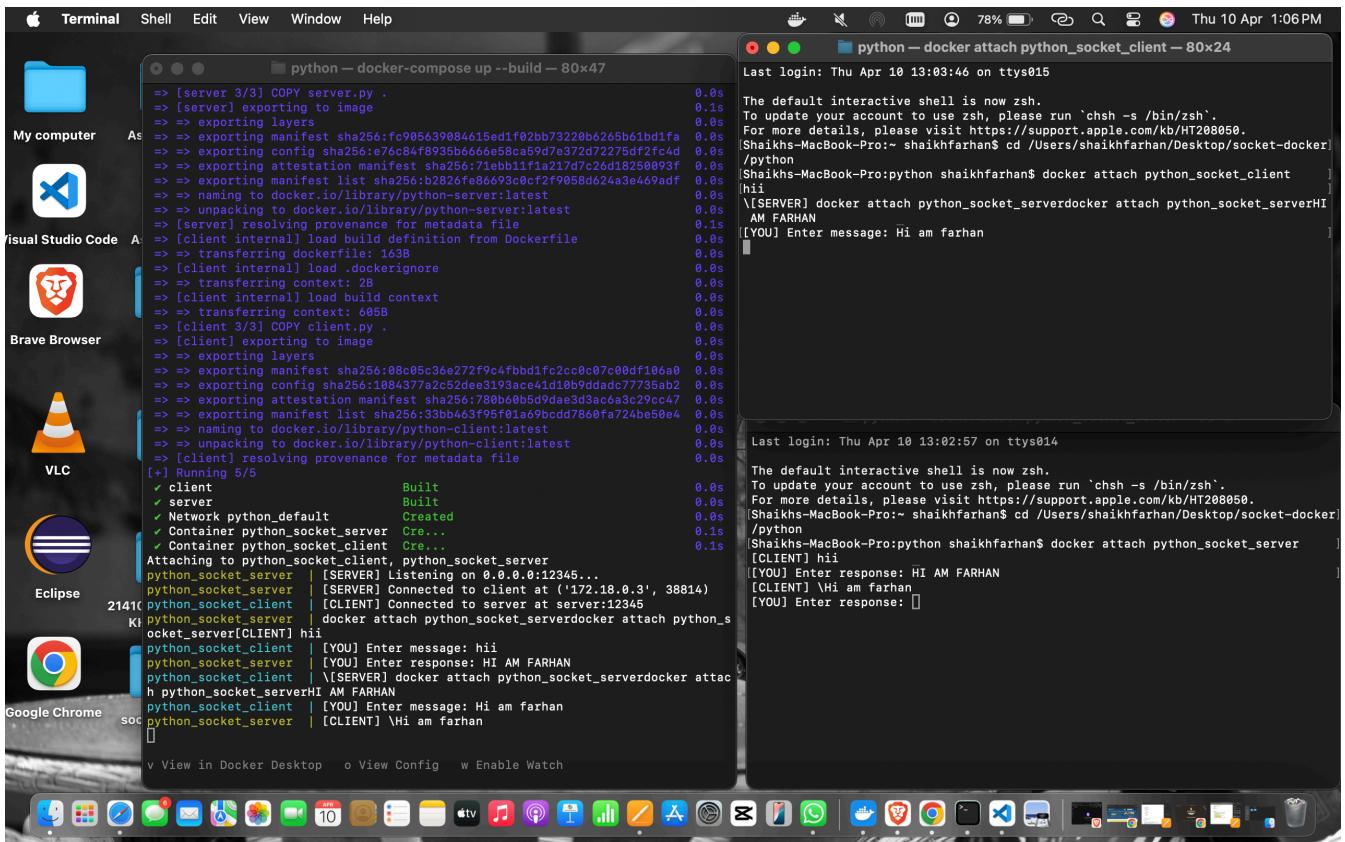
```
Shaikhs-MacBook-Pro:~ shaikhfarhan$ brew install gcc
-bash: brew: command not found
[Shaikhs-MacBook-Pro:~ shaikhfarhan$ sudo brew install gcc
[sudo: brew: command not found
[Shaikhs-MacBook-Pro:~ shaikhfarhan$ gcc --version
Apple clang version 17.0.0 (clang-1700.0.13.3)
[Target: arm64-apple-darwin24.4.0
Thread model: posix
InstalledDir: /Library/Developer/CommandLineTools/usr/bin
Shaikhs-MacBook-Pro:~ shaikhfarhan$ gcc server.c
clang: error: no such file or directory: 'server.c'
clang: error: no input files
[Shaikhs-MacBook-Pro:~ shaikhfarhan$ /Users/shaikhfarhan/Downloads/Docker-main/C\ Local\ Code
[-bash: /Users/shaikhfarhan/Downloads/Docker-main/C Local Code: is a directory
[Shaikhs-MacBook-Pro:~ shaikhfarhan$ cd /Users/shaikhfarhan/Downloads/Docker-main/C\ Local\ Code
Shaikhs-MacBook-Pro:C Local Code shaikhfarhan$ gcc server.c -o server
Shaikhs-MacBook-Pro:C Local Code shaikhfarhan$ gcc client.c -o client
Shaikhs-MacBook-Pro:C Local Code shaikhfarhan$ ./server
Server is listening on port 8088
HI i am farhan
Message from client: I am farhan
Enter a message for client: Message from client: It a from server side
Enter a message for client: []
```

```
C Local Code — server — 152x28
Last login: Thu Apr 10 12:35:01 on ttys013
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
[Shaikhs-MacBook-Pro:~ shaikhfarhan$ cd /Users/shaikhfarhan/Downloads/Docker-main/C\ Local\ Code
[Shaikhs-MacBook-Pro:C Local Code shaikhfarhan$ gcc client.c -o client
KH[Shaikhs-MacBook-Pro:C Local Code shaikhfarhan$ ./client
Connection failed: Connection refused
Shaikhs-MacBook-Pro:C Local Code shaikhfarhan$ ./client
Enter a message for server: I am farhan
Message from server: HI i am farhan
Enter a message for server: It a from server side
Message from server:
```

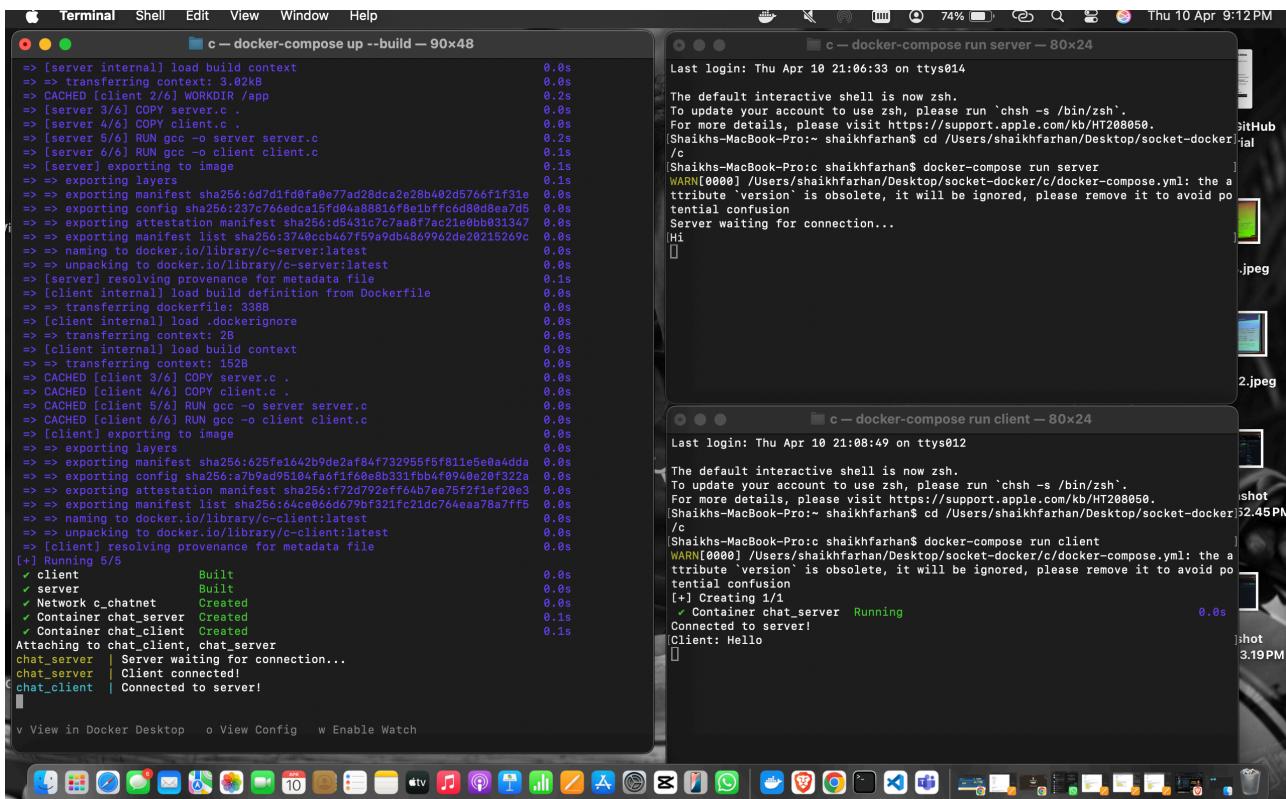
```
C Local Code — client — 152x24
Enter a message for server: It a from server side
Message from server:
```

```
Enter a message for server: []
```

## • SOCKET-DOCKER/PYTHON



## • SOCKET-DOCKER/C



# DESKTOP VIEW

