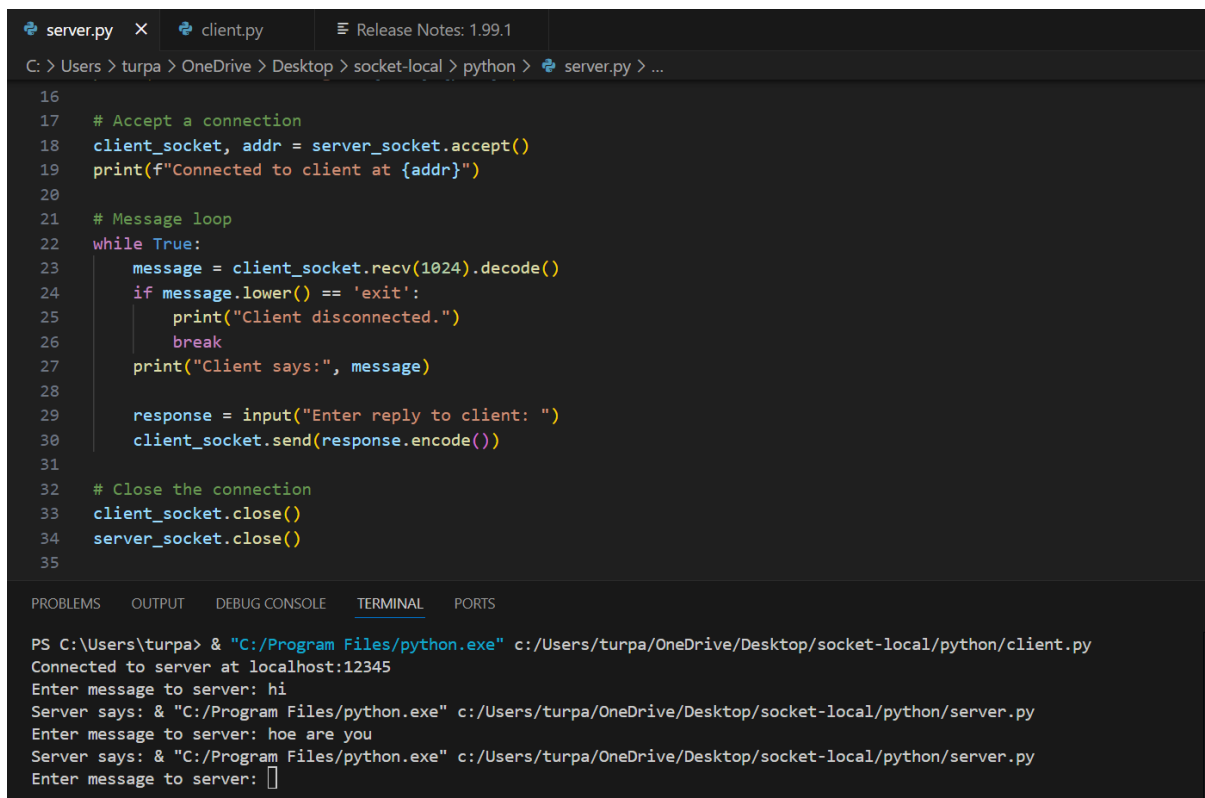


# Capston-4

Name: Turpati Dinesh Kumar

Regd\_no:2141011200

## Python Local Code:



```
server.py x client.py Release Notes: 1.99.1
C: > Users > turpa > OneDrive > Desktop > socket-local > python > server.py > ...

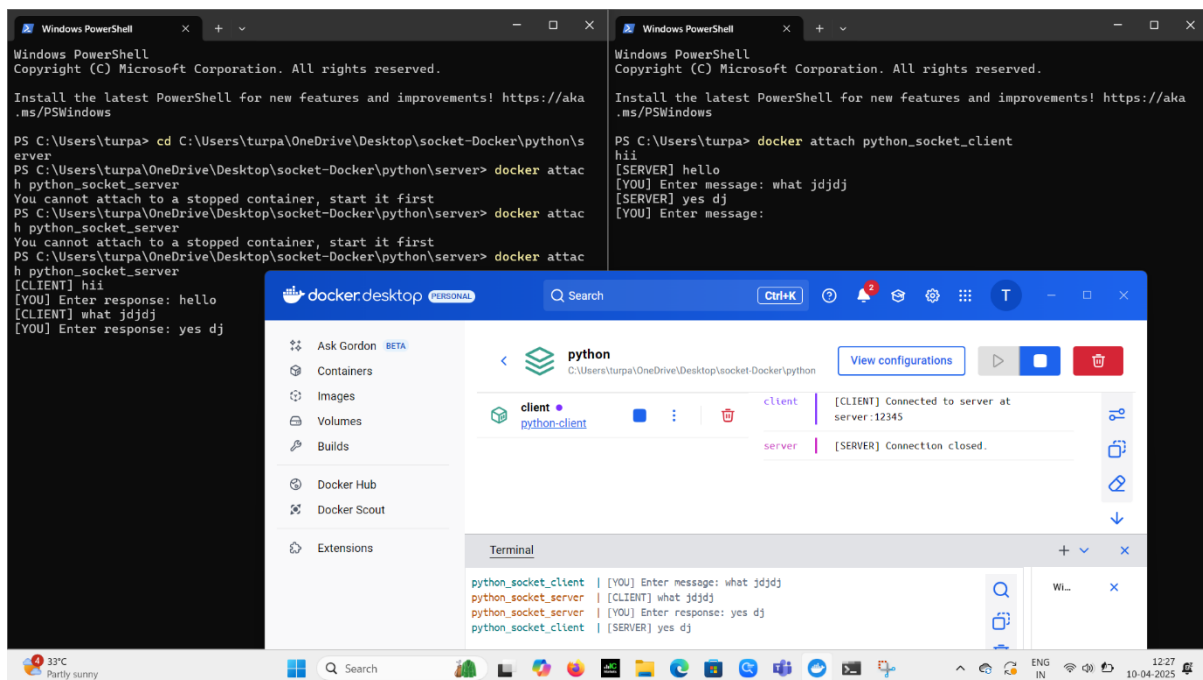
16
17 # Accept a connection
18 client_socket, addr = server_socket.accept()
19 print(f"Connected to client at {addr}")
20
21 # Message loop
22 while True:
23     message = client_socket.recv(1024).decode()
24     if message.lower() == 'exit':
25         print("Client disconnected.")
26         break
27     print("Client says:", message)
28
29     response = input("Enter reply to client: ")
30     client_socket.send(response.encode())
31
32 # Close the connection
33 client_socket.close()
34 server_socket.close()
35

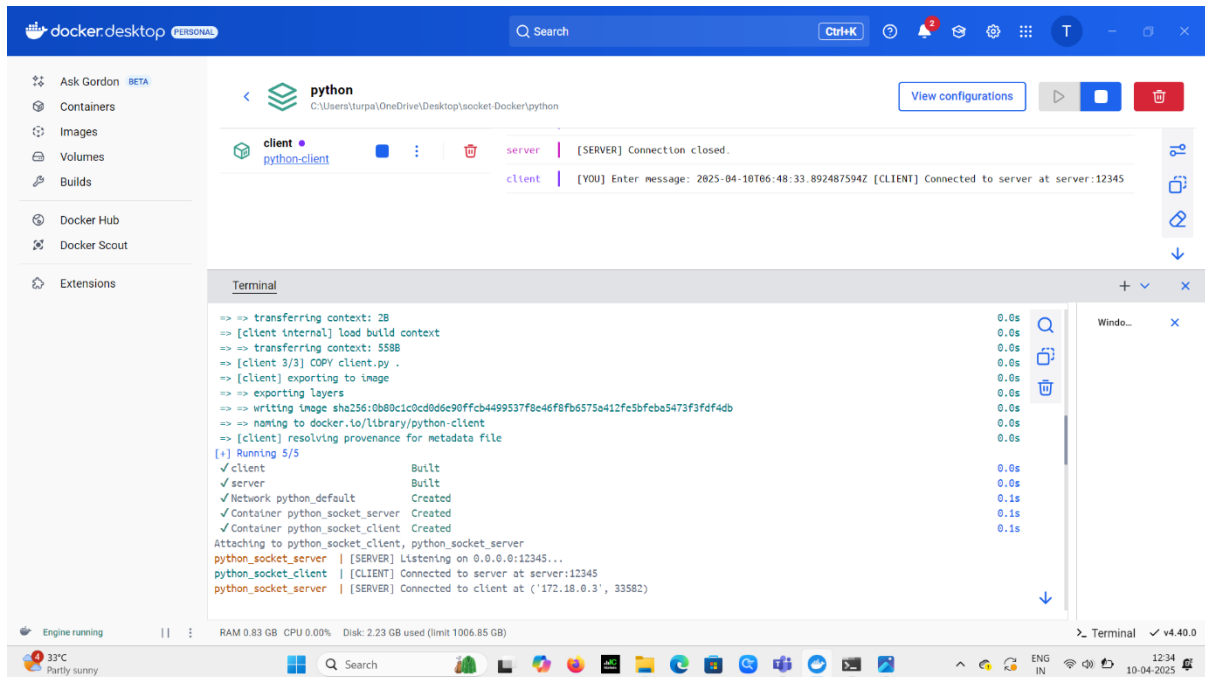
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\turpa> & "C:/Program Files/python.exe" c:/Users/turpa/OneDrive/Desktop/socket-local/python/client.py
Connected to server at localhost:12345
Enter message to server: hi
Server says: & "C:/Program Files/python.exe" c:/Users/turpa/OneDrive/Desktop/socket-local/python/server.py
Enter message to server: hoe are you
Server says: & "C:/Program Files/python.exe" c:/Users/turpa/OneDrive/Desktop/socket-local/python/server.py
Enter message to server: 
```

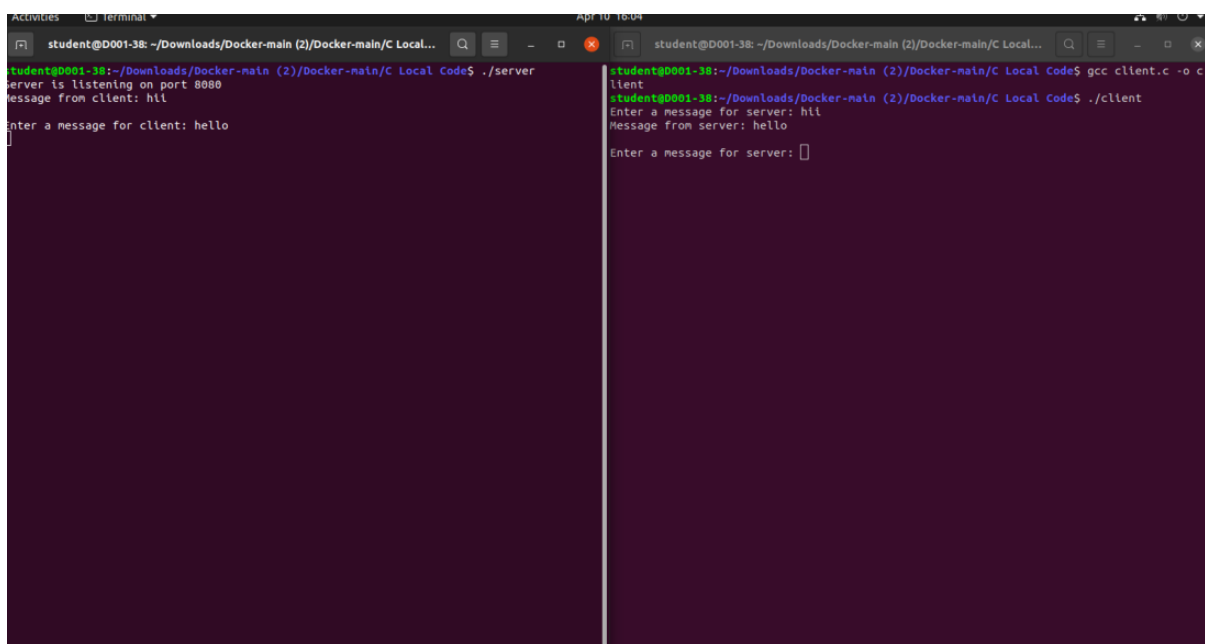
```
server.py  client.py  Release Notes: 1.99.1
C: > Users > turpa > OneDrive > Desktop > socket-local > python > client.py > ...
Click to add a breakpoint
3  # Create a socket object
4  client_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
5
6  # Define the host and port to connect to
7  host = 'localhost'
8  port = 12345
9
10 # Connect to the server
11 client_socket.connect((host, port))
12 print(f"Connected to server at {host}:{port}")
13
14 # Message loop
15 while True:
16     message = input("Enter message to server: ")
17     client_socket.send(message.encode())
18
19     if message.lower() == 'exit':
20         print("Disconnected from server.")
21
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\turpa> python -u "c:\Users\turpa\OneDrive\Desktop\socket-local\python\client.py"
Connected to server at localhost:12345
Enter message to server: Hello
Server says: Hi
Enter message to server: 
```

## Python Docker code:





## C Local code:



## C Docker code:

```
Microsoft Windows [Version 10.0.22631.5039]
(c) Microsoft Corporation. All rights reserved.

C:\Users\turpa>cd C:\Users\turpa\OneDrive\Desktop\socket-Docker\C\C Docker File

C:\Users\turpa\OneDrive\Desktop\socket-Docker\C\C Docker File>docker-compose
run server
time="2025-04-10T13:08:27+05:30" level=warning msg="C:\\Users\\turpa\\OneDri
ve\\Desktop\\socket-Docker\\C\\C Docker File\\docker-compose.yml: the attrib
ute 'version' is obsolete, it will be ignored, please remove it to avoid pot
ential confusion"
[*] Creating 1/1
  ✓Network cdockerfile_chatnet Created 0.1s
Server waiting for connection...

C:\Users\turpa\OneDrive\Desktop\socket-Docker\C\C Docker File>docker-compose
run client
time="2025-04-10T13:09:21+05:30" level=warning msg="C:\\Users\\turpa\\OneDri
ve\\Desktop\\socket-Docker\\C\\C Docker File\\docker-compose.yml: the attrib
ute 'version' is obsolete, it will be ignored, please remove it to avoid pot
ential confusion"
[*] Creating 1/1
  ✓Container chat_server Created 0.1s
[*] Running 1/1
  ✓Container chat_server Started 0.2s

Connected to server!
Client: hello
```

```
Microsoft Windows [Version 10.0.22631.5039]
(c) Microsoft Corporation. All rights reserved.

C:\Users\turpa\OneDrive\Desktop\socket-Docker\C\C Docker File>docker-compose
run server
time="2025-04-10T13:08:27+05:30" level=warning msg="C:\\Users\\turpa\\OneDri
ve\\Desktop\\socket-Docker\\C\\C Docker File\\docker-compose.yml: the attrib
ute 'version' is obsolete, it will be ignored, please remove it to avoid pot
ential confusion"
[*] Creating 1/1
  ✓Network cdockerfile_chatnet Created 0.1s
Server waiting for connection...

C:\Users\turpa\OneDrive\Desktop\socket-Docker\C\C Docker File>docker-compose
run client
time="2025-04-10T13:09:21+05:30" level=warning msg="C:\\Users\\turpa\\OneDri
ve\\Desktop\\socket-Docker\\C\\C Docker File\\docker-compose.yml: the attrib
ute 'version' is obsolete, it will be ignored, please remove it to avoid pot
ential confusion"
[*] Creating 1/1
  ✓Container chat_server Created 0.1s
[*] Running 1/1
  ✓Container chat_server Started 0.2s

Connected to server!
Client: hello
```

Ask Gordon BETA

Containers

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Docker Scout

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Builds Give feedback

Build container images and artifacts from source code. [Learn more](#)

Build historyActive builds

Search

Show only my builds

<input type="checkbox"/>	Name	ID	Builder	Duration	Created	Author	
<input type="checkbox"/>	✓ C Docker File	lnupao	desktop-linux	1.2s	9 minutes ago	N/A	
<input type="checkbox"/>	✓ C Docker File	mlym2b	desktop-linux	43.5s	10 minutes ago	N/A	
<input type="checkbox"/>	✓ client	hdm6yh	desktop-linux	0.6s	53 minutes ago	N/A	

Rows per page: 101 - 8 of 8

Terminal

```
python_socket_client | [YOU] Enter message: what jdjdj
python_socket_server | [CLIENT] what jdjdj
python_socket_server | [YOU] Enter response: yes dj
python_socket_client | [SERVER] yes dj
```

View In Docker Desktop

View Config

Enable Watch

Windows...

Engine running

RAM 0.90 GB CPU 0.08% Disk: 2.69 GB used (limit 1006.85 GB)

Terminal

✓ v4.40.0

Ask Gordon BETA

**Containers**

Images

Volumes

Builds

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Containers Give feedback

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Only show running containers

<input type="checkbox"/>	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	server-run-b95e05ac2805	1dd80f2ba57c	<a href="#">cdockerfile-server</a>		0%	2 minutes ago	
<input type="checkbox"/>	client-run-9e841192e5d4	86dc0046e59d	<a href="#">cdockerfile-client</a>		0%	50 seconds ago	
<input type="checkbox"/>	> python	-	-	-	0%	52 minutes ago	
<input type="checkbox"/>	> cdockerfile	-	-	-	0%	51 seconds ago	

Showing 4 items

Terminal

```
python_socket_client | [YOU] Enter message: what jdjdj
python_socket_server | [CLIENT] what jdjdj
python_socket_server | [YOU] Enter response: yes dj
python_socket_client | [SERVER] yes dj
```

View In Docker Desktop

View Config

Enable Watch

Windows...

Engine running

RAM 0.85 GB CPU 0.42% Disk: 2.69 GB used (limit 1006.85 GB)

Terminal

✓ v4.40.0

