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REG NO: *21/00816.*
COURSE: *Bsc. IT.*

NETWORK PROGRAMMING.
CAT 1

BIT03205-PT/DL-ALL-MUSIKAFREDRICK > New section CAT 1

CAT 1

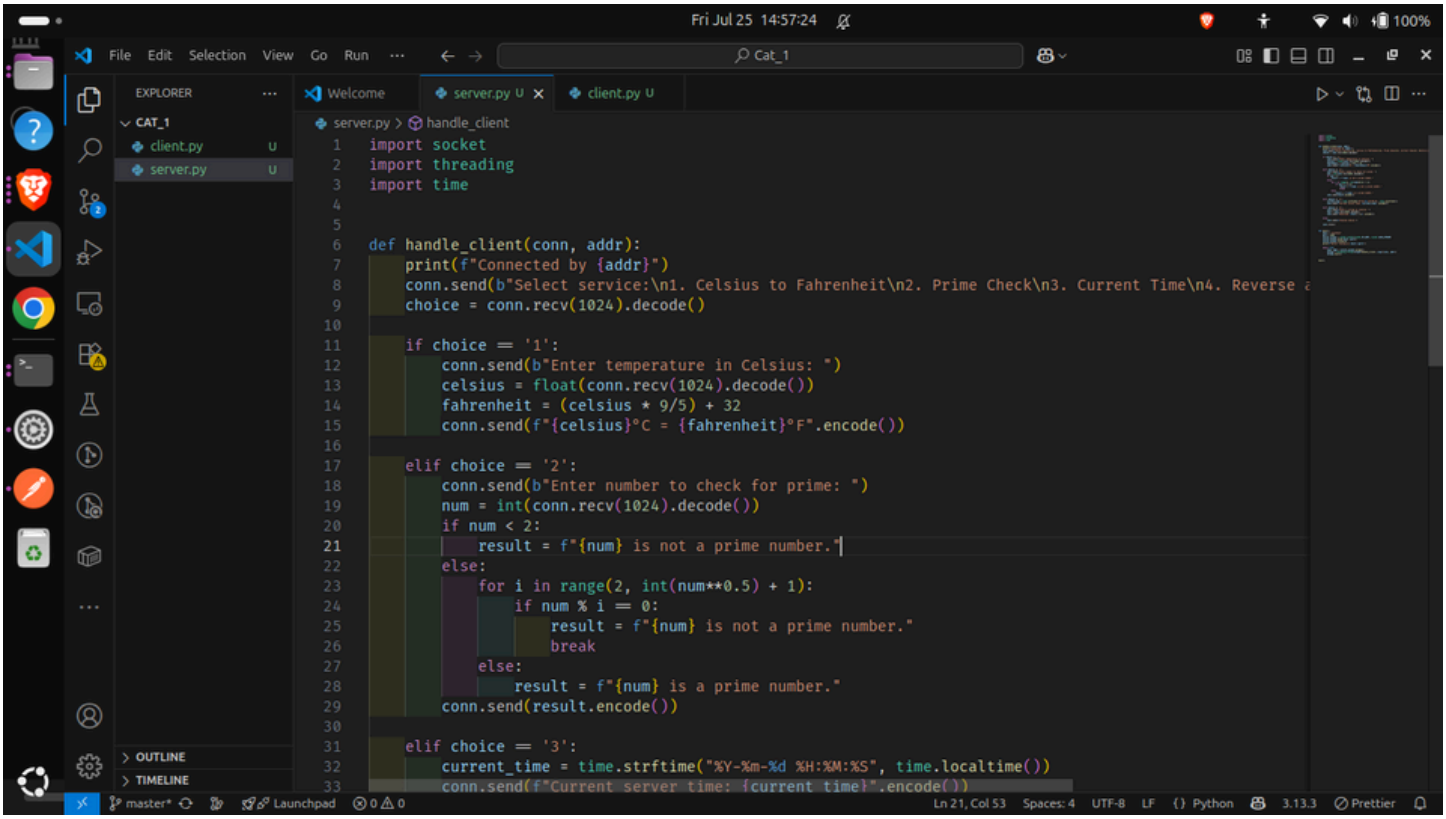
Opened: Saturday, 19 July 2025, 12:00 AM
Due: Saturday, 26 July 2025, 12:00 AM

read on threads and write a client program of your choice that uses 4 threads to provide different services to the clients

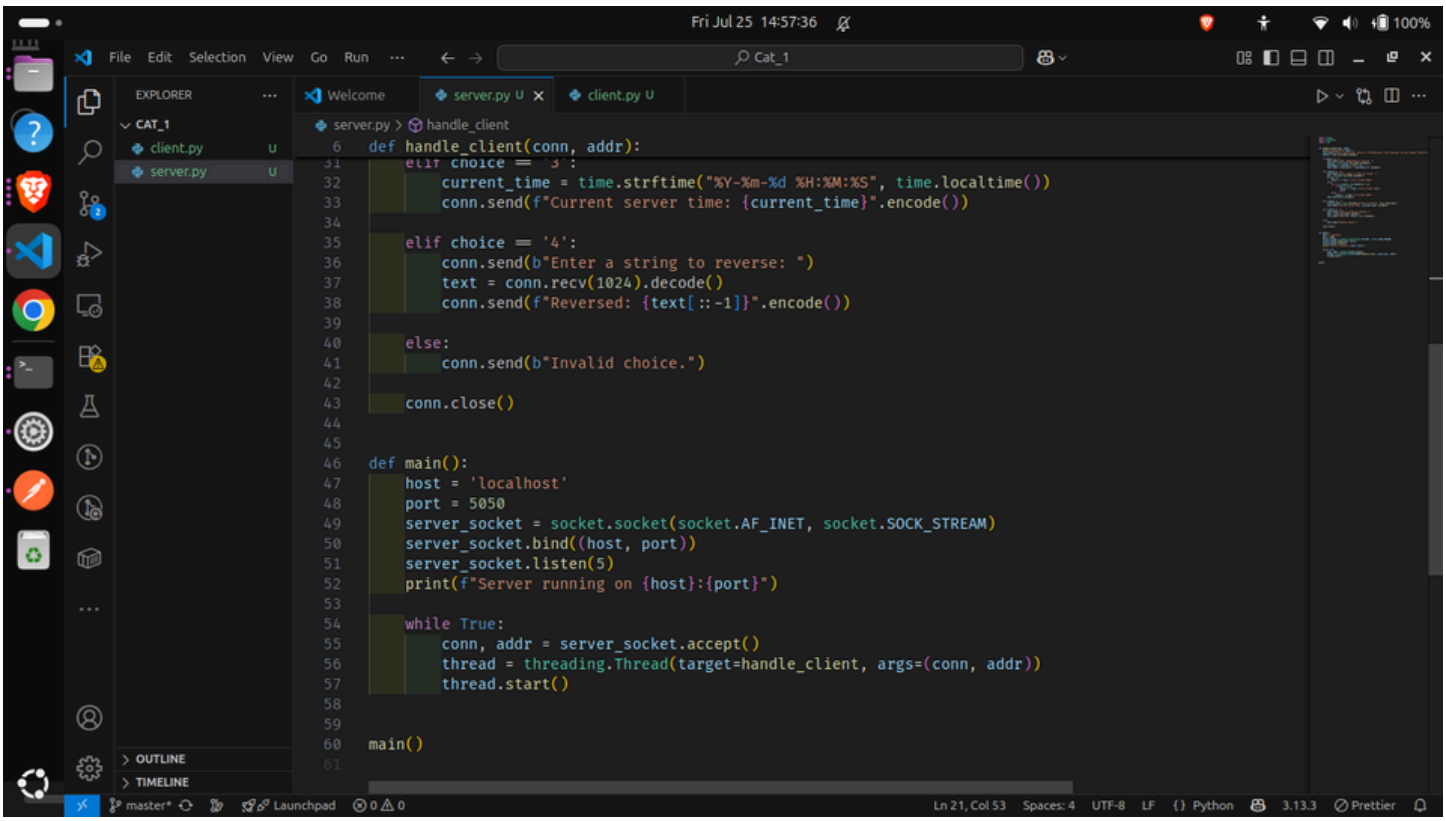
Add submission

GITUB LINK =>
GitHub - CodesByEtemesi/Network-Programming-Cat1: The CAT is about threading.

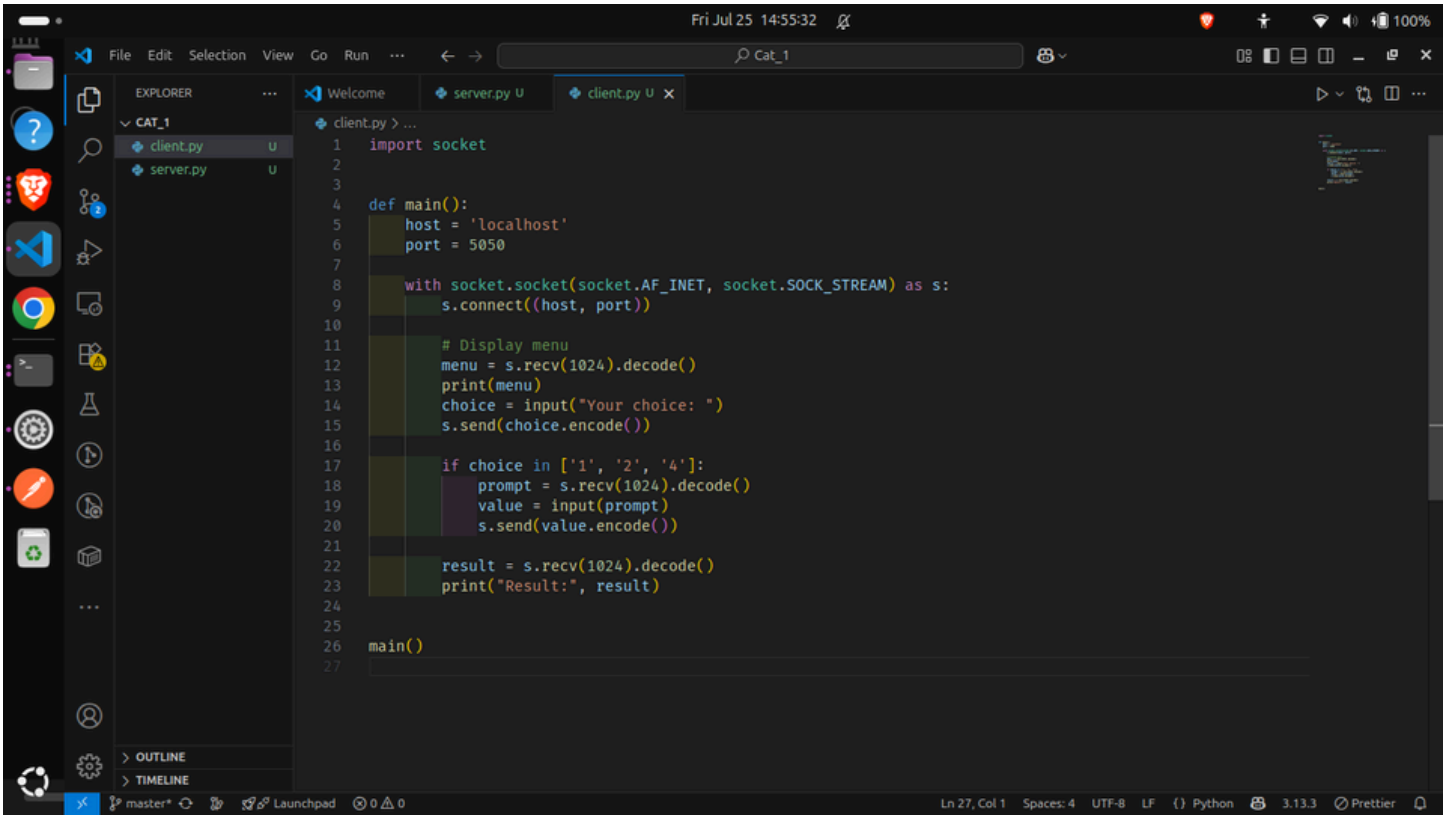
Server.py:



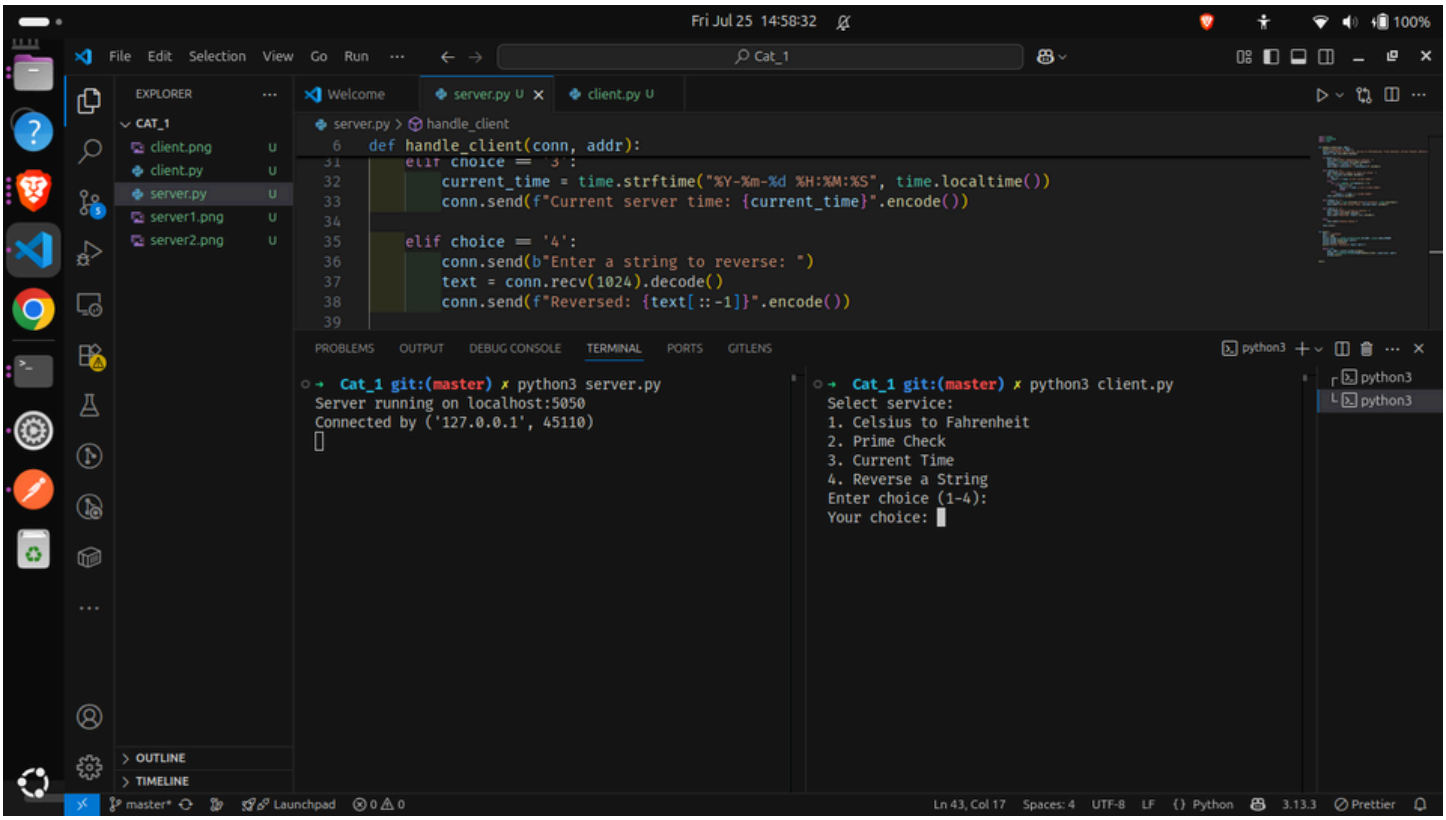
Server.py: continued last part.



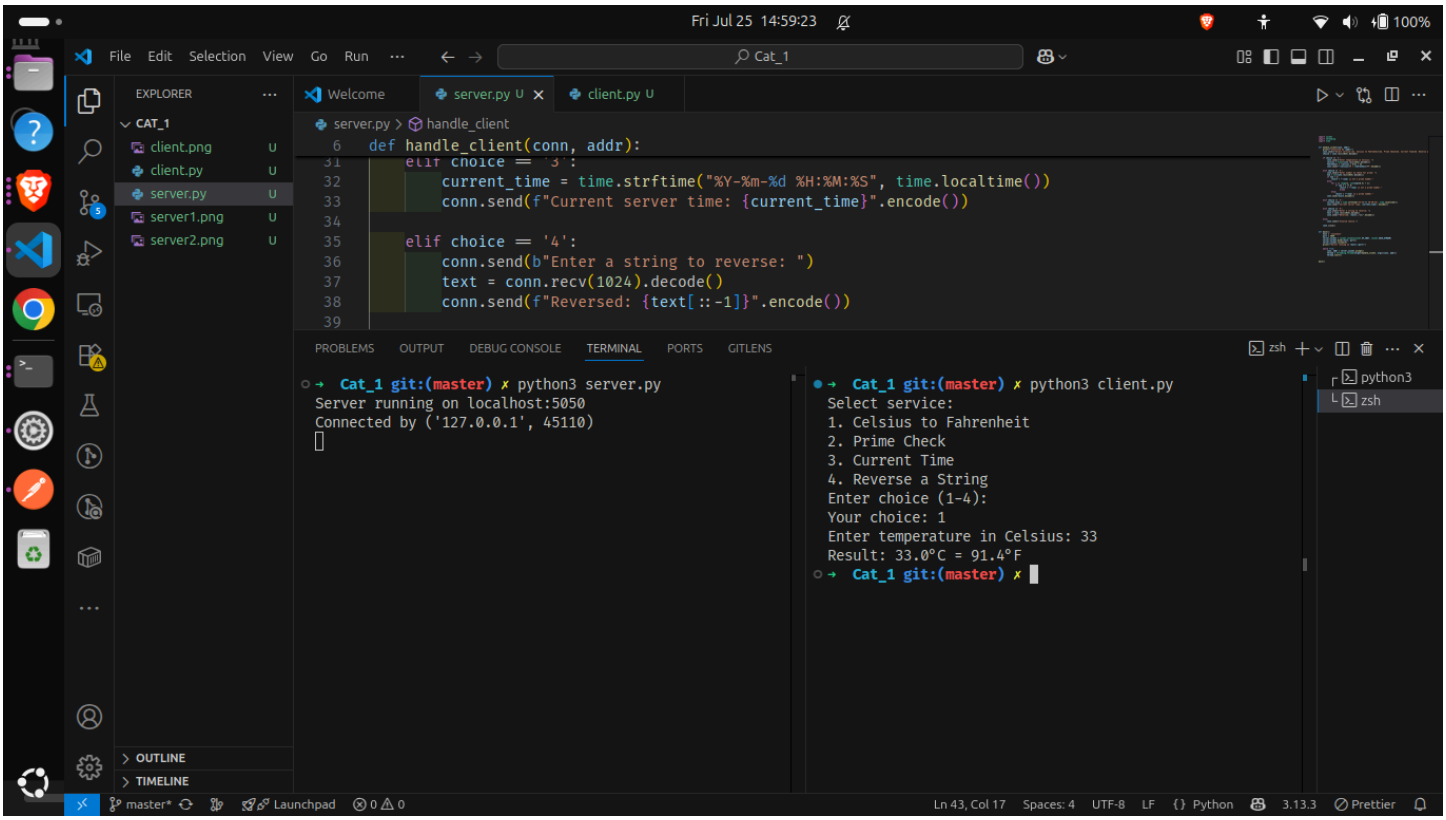
Client.py



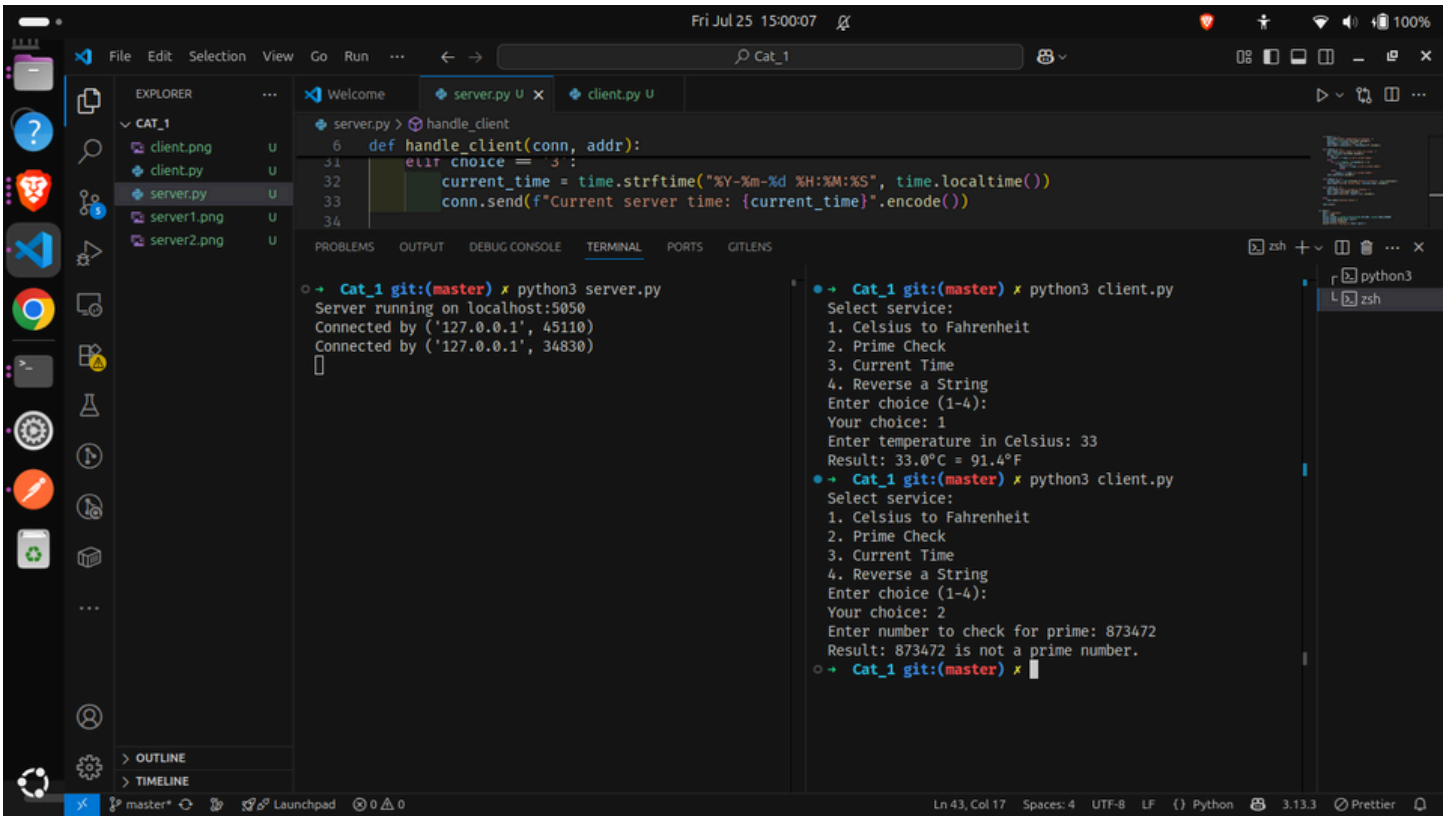
THE TERMINAL:



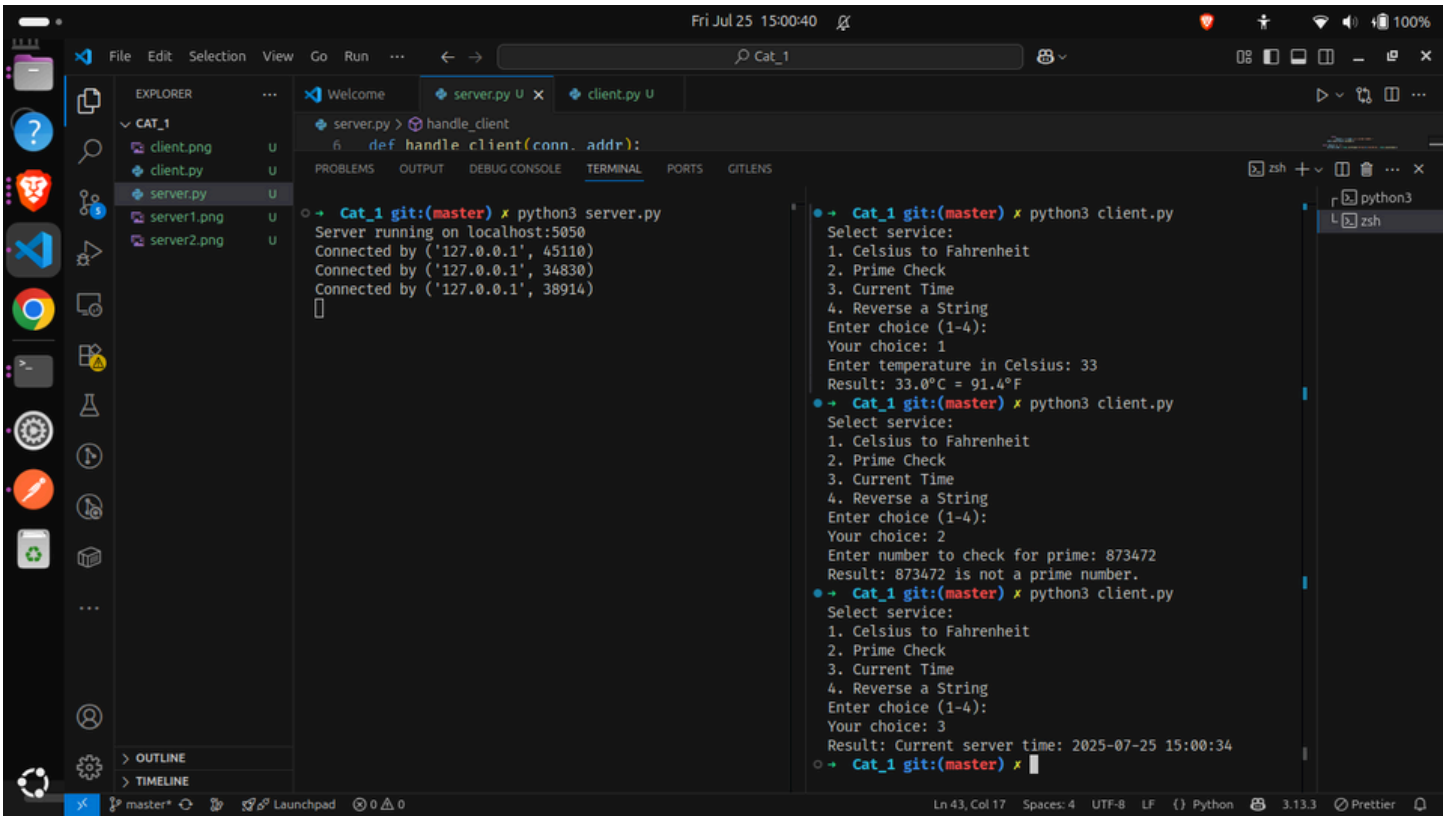
Service 1: Converting temperatures from degrees Celsius to Fahrenheit.



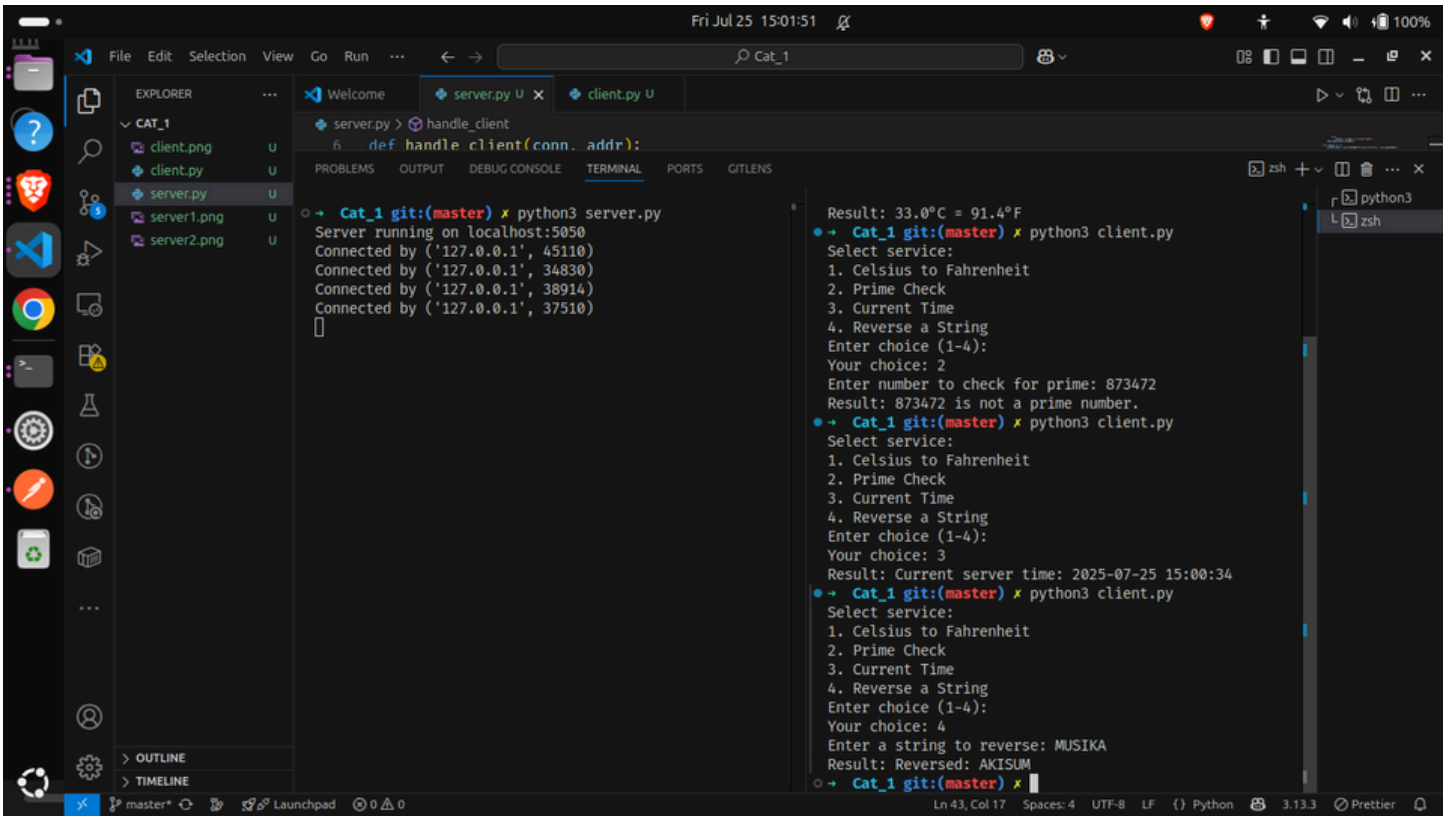
Service 2: Checking whether a number is a prime number or not.



Service 3: Checking for the current time in the server.



Service 4: Reversing a string of characters.


Fri Jul 25 15:01:51
100%
File Edit Selection View Go Run
Cat_1
EXPLORER
CAT_1
client.png
client.py
server.py
server1.png
server2.png
Welcome
server.py U
client.py U
server.py > handle_client
def handle_client(conn, addr):
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
zsh
python3
zsh
Cat_1 git:(master) ✗ python3 server.py
Server running on localhost:5050
Connected by ('127.0.0.1', 45110)
Connected by ('127.0.0.1', 34830)
Connected by ('127.0.0.1', 38914)
Connected by ('127.0.0.1', 37510)
Result: 33.0°C = 91.4°F
Cat_1 git:(master) ✗ python3 client.py
Select service:
1. Celsius to Fahrenheit
2. Prime Check
3. Current Time
4. Reverse a String
Enter choice (1-4):
Your choice: 2
Enter number to check for prime: 873472
Result: 873472 is not a prime number.
Cat_1 git:(master) ✗ python3 client.py
Select service:
1. Celsius to Fahrenheit
2. Prime Check
3. Current Time
4. Reverse a String
Enter choice (1-4):
Your choice: 3
Result: Current server time: 2025-07-25 15:00:34
Cat_1 git:(master) ✗ python3 client.py
Select service:
1. Celsius to Fahrenheit
2. Prime Check
3. Current Time
4. Reverse a String
Enter choice (1-4):
Your choice: 4
Enter a string to reverse: MUSIKA
Result: Reversed: AKISUM
Cat_1 git:(master) ✗
OUTLINE
TIMELINE
master* Launchpad 0 0
Ln 43, Col 17 Spaces: 4 UTF-8 LF Python 3.13.3 Prettier

END.