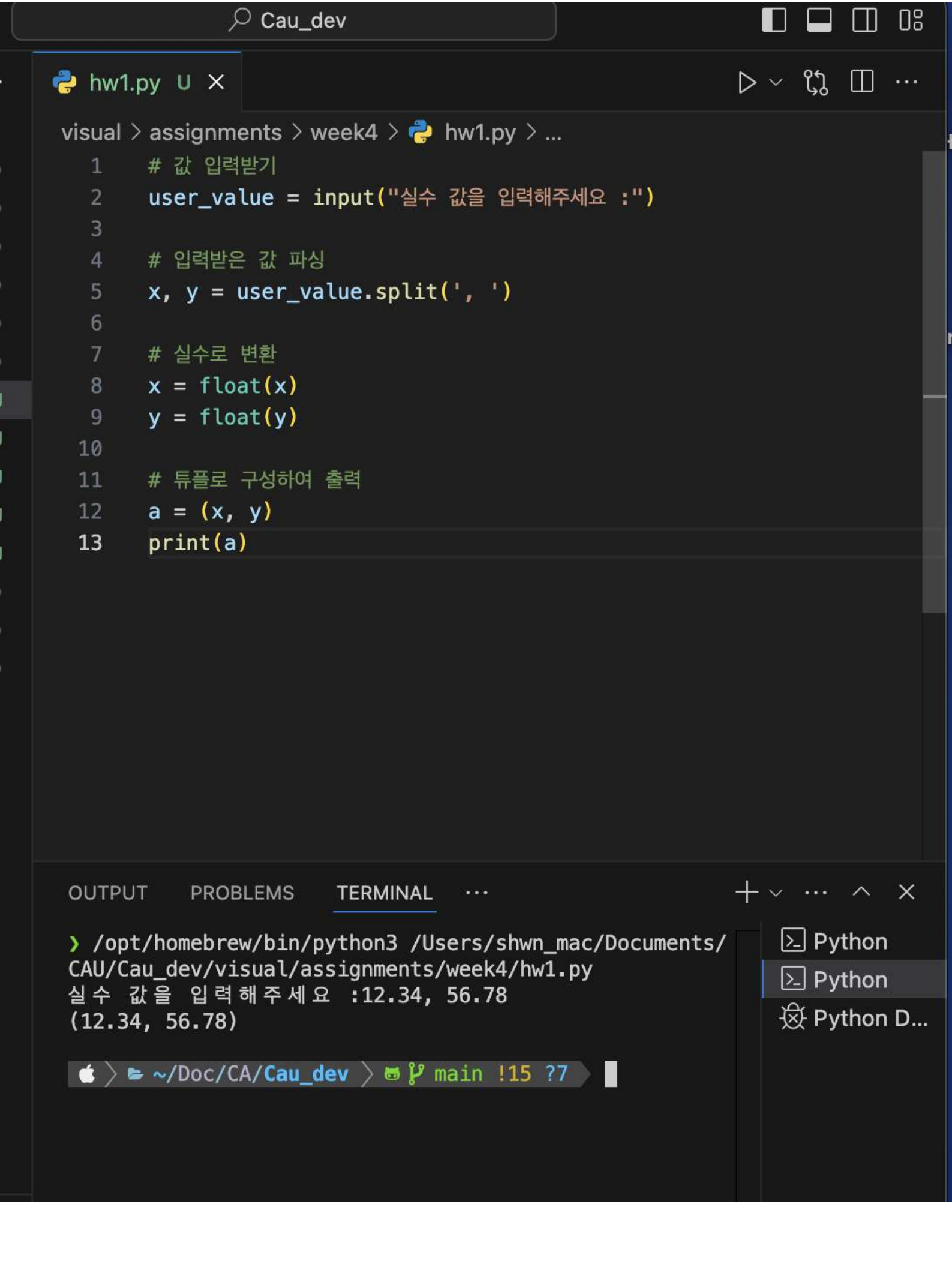

Cau_dev
hw1.py U
visual > assignments > week4 > hw1.py > ...
1 # 값 입력받기
2 user_value = input("실수 값을 입력해주세요 :")
3
4 # 입력받은 값 파싱
5 x, y = user_value.split(', ')
6
7 # 실수로 변환
8 x = float(x)
9 y = float(y)
10
11 # 튜플로 구성하여 출력
12 a = (x, y)
13 print(a)
OUTPUT
PROBLEMS
TERMINAL
> /opt/homebrew/bin/python3 /Users/shwn_mac/Documents/CAU/Cau_dev/visual/assignments/week4/hw1.py
실수 값을 입력해주세요 :12.34, 56.78
(12.34, 56.78)
~/Doc/CA/Cau_dev
main !15 ?7
Python
Python
Python D...

Cau_dev

hw2.py U

visual > assignments > week4 > hw2.py > ...

```python
points = [
    (1, 1), (2, 2), (3, -1), (4, 0), (-4, 6)
]

# 무게중심 구하기
sum_x = 0
sum_y = 0
for i in range(len(points)):
    sum_x += points[i][0]
    sum_y += points[i][1]

m = ((sum_x / 5), (sum_y / 5))
# print(m)

# 무게중심과의 거리 구하기
distances = []
for i in range(len(points)):
    distance = (points[i][0] - m[0]) ** 2 + (points[i][1] - m[1]) ** 2
    distances.append(distance)

for i in range(len(points)):
    print(distances[i])
```

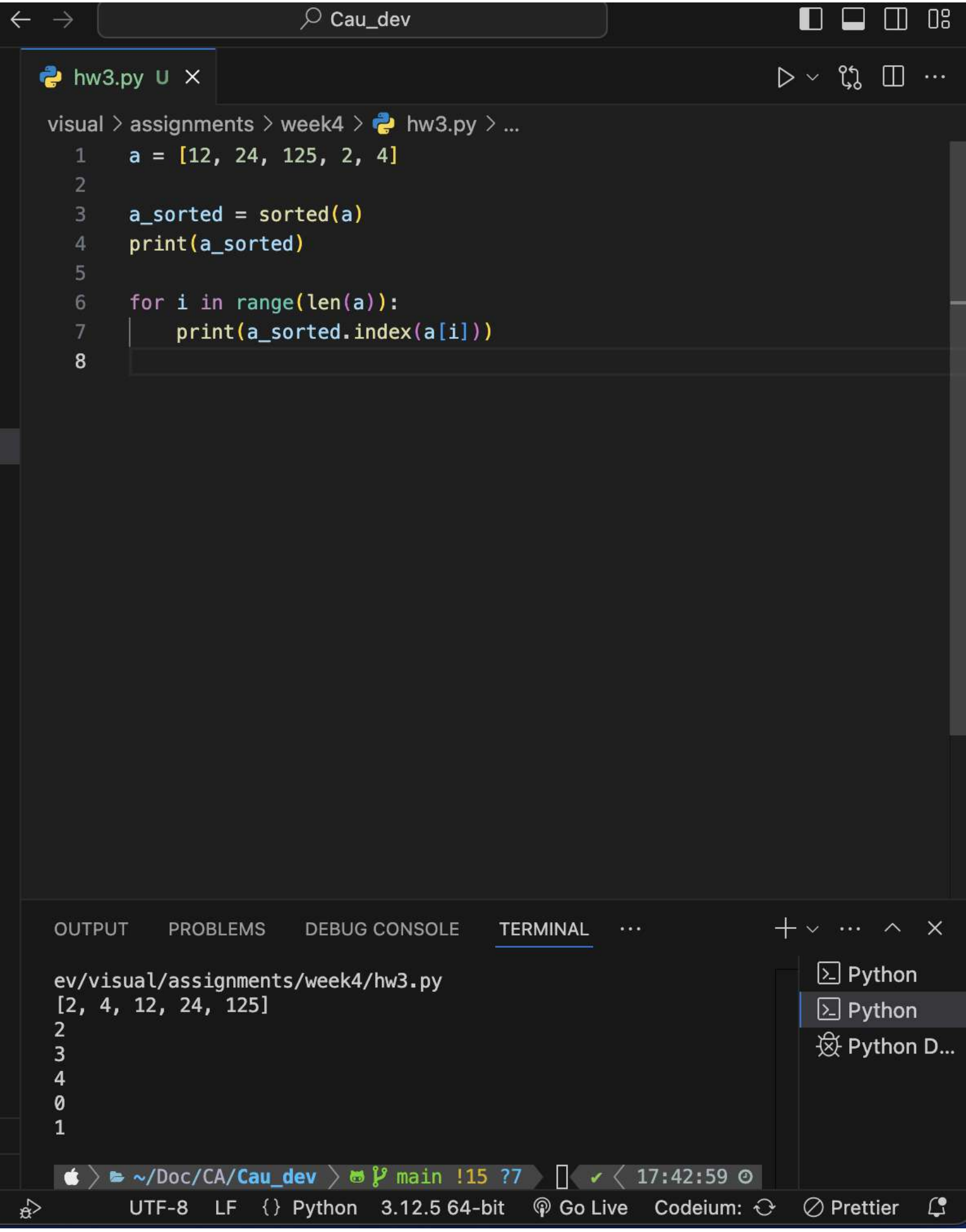
OUTPUT PROBLEMS DEBUG CONSOLE TERMINAL

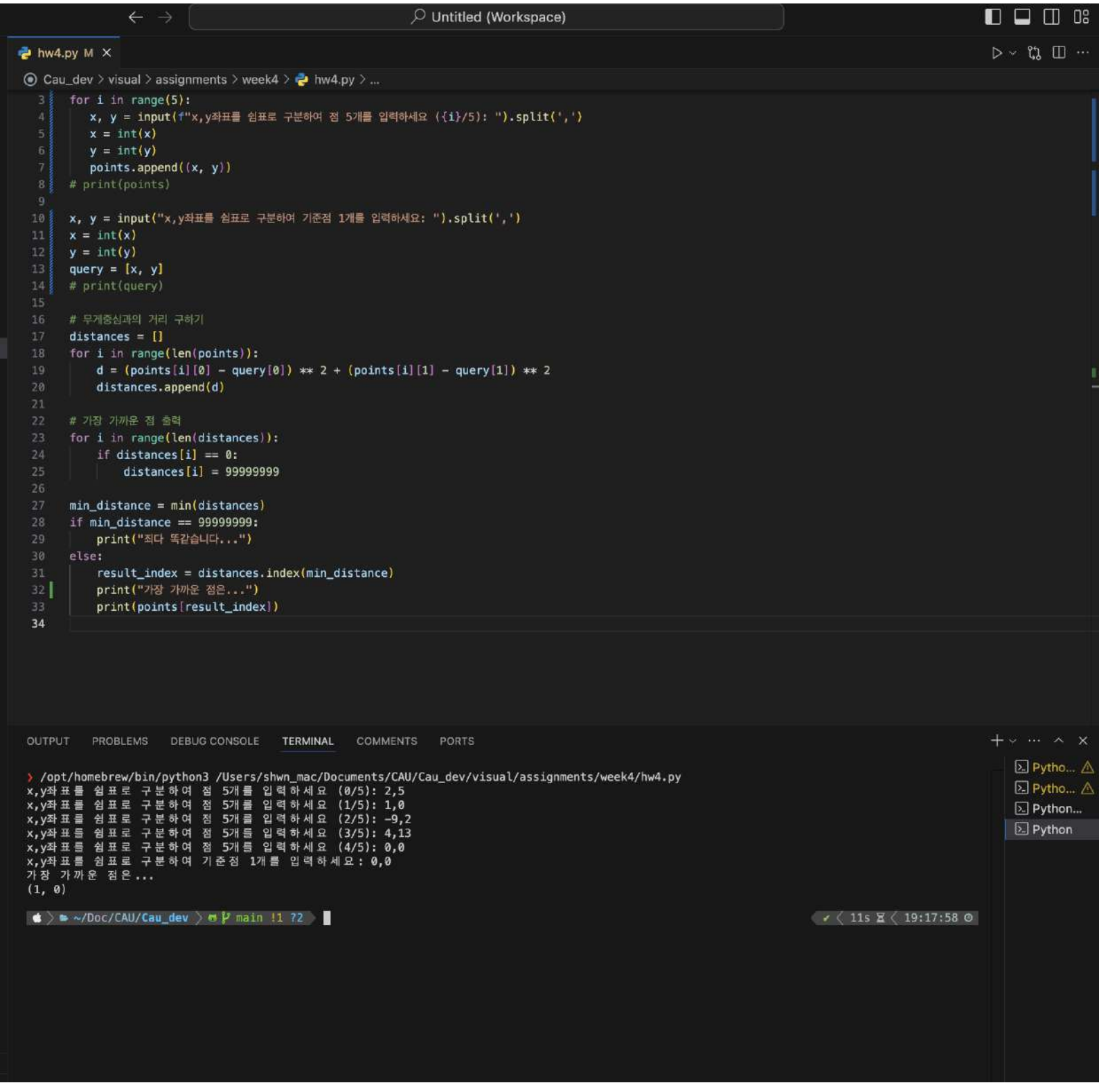
```
❯ /opt/homebrew/bin/python3 /Users/shwn_mac/Documents/CAU/Cau_dev/visual/assignments/week4/hw2.py
0.4000000000000001
0.8
10.0
10.399999999999999
46.400000000000006
```

Python
Python
Python D...

~/Doc/CA/Cau_dev main !15 ?7 17:40:00

0 UTF-8 LF {} Python 3.12.5 64-bit Go Live Codeium: Prettier


Cau_dev
hw3.py U
visual > assignments > week4 > hw3.py > ...
1 a = [12, 24, 125, 2, 4]
2
3 a_sorted = sorted(a)
4 print(a_sorted)
5
6 for i in range(len(a)):
7 print(a_sorted.index(a[i]))
8
OUTPUT PROBLEMS DEBUG CONSOLE TERMINAL
ev/visual/assignments/week4/hw3.py
[2, 4, 12, 24, 125]
2
3
4
0
1
Python
Python
Python D...
~/Doc/CA/Cau_dev main !15 ?7
17:42:59
UTF-8 LF {} Python 3.12.5 64-bit Go Live Codeium: Prettier


Untitled (Workspace)
hw4.py M
Cau_dev > visual > assignments > week4 > hw4.py > ...
for i in range(5):
x, y = input(f"x,y좌표를 쉼표로 구분하여 점 5개를 입력하세요 ({i}/5): ").split(',')
x = int(x)
y = int(y)
points.append((x, y))
# print(points)
x, y = input("x,y좌표를 쉼표로 구분하여 기준점 1개를 입력하세요: ").split(',')
x = int(x)
y = int(y)
query = [x, y]
# print(query)
# 무게중심과의 거리 구하기
distances = []
for i in range(len(points)):
d = (points[i][0] - query[0]) ** 2 + (points[i][1] - query[1]) ** 2
distances.append(d)
# 가장 가까운 점 출력
for i in range(len(distances)):
if distances[i] == 0:
distances[i] = 99999999
min_distance = min(distances)
if min_distance == 99999999:
print("죄다 똑같습니다...")
else:
result_index = distances.index(min_distance)
print("가장 가까운 점은...")
print(points[result_index])
OUTPUT
PROBLEMS
DEBUG CONSOLE
TERMINAL
COMMENTS
PORTS
> /opt/homebrew/bin/python3 /Users/shwn_mac/Documents/CAU/Cau_dev/visual/assignments/week4/hw4.py
x,y좌표를 쉼표로 구분하여 점 5개를 입력하세요 (0/5): 2,5
x,y좌표를 쉼표로 구분하여 점 5개를 입력하세요 (1/5): 1,0
x,y좌표를 쉼표로 구분하여 점 5개를 입력하세요 (2/5): -9,2
x,y좌표를 쉼표로 구분하여 점 5개를 입력하세요 (3/5): 4,13
x,y좌표를 쉼표로 구분하여 점 5개를 입력하세요 (4/5): 0,0
x,y좌표를 쉼표로 구분하여 기준점 1개를 입력하세요: 0,0
가장 가까운 점은...
(1, 0)
~/Doc/CAU/Cau_dev
main !1 ?2
11s
19:17:58
Pytho...
Pytho...
Python...
Python