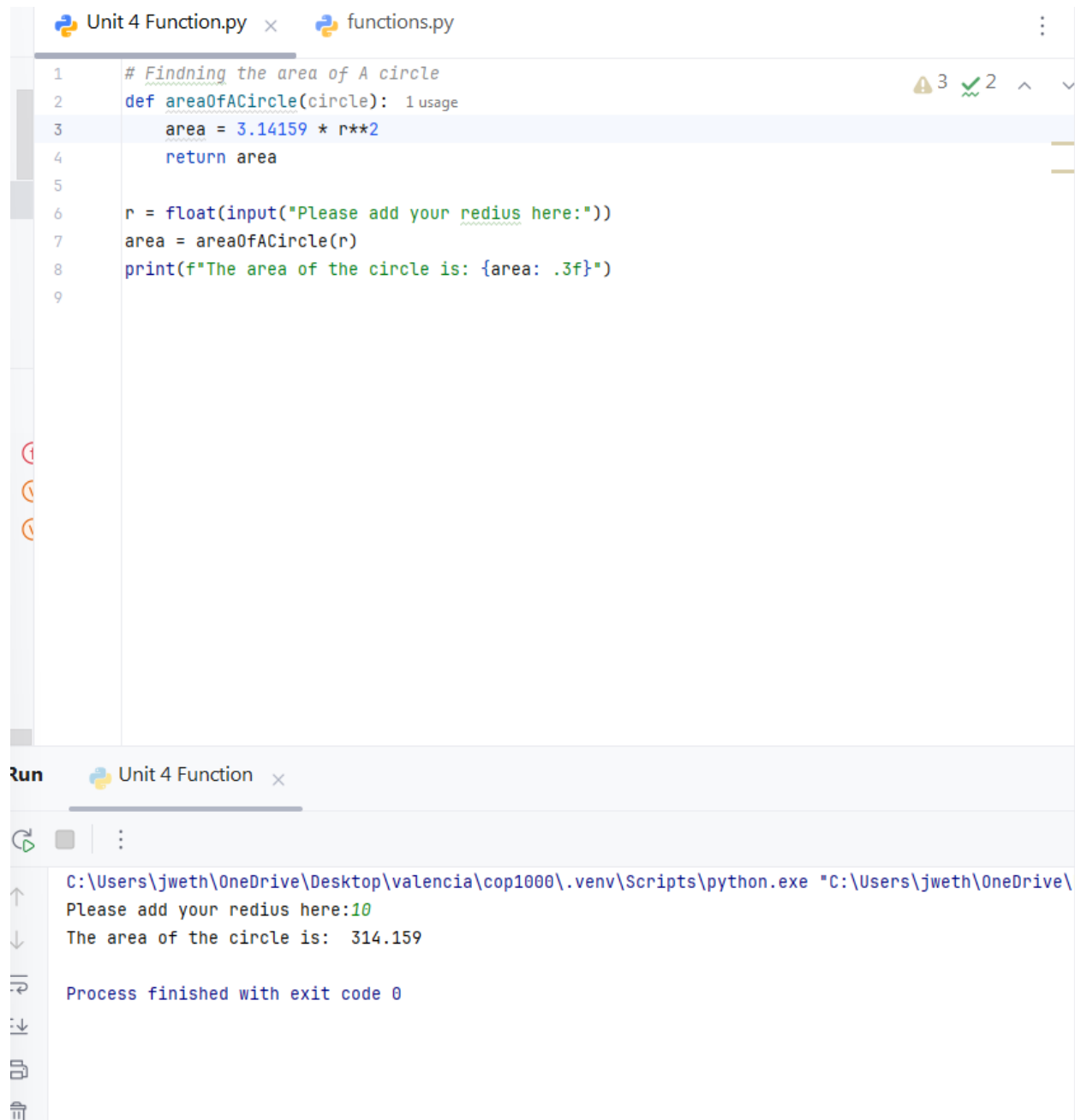


Area of a circle:



```
Unit 4 Function.py x functions.py
1 # Findning the area of A circle
2 def areaOfACircle(circle): 1 usage
3     area = 3.14159 * r**2
4     return area
5
6 r = float(input("Please add your redius here:"))
7 area = areaOfACircle(r)
8 print(f"The area of the circle is: {area: .3f}")
9
```

Run Unit 4 Function x

C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\ Please add your redius here:10
The area of the circle is: 314.159
Process finished with exit code 0

Unit 4 Function.py

functions.py

```
1 # Findning the area of A circle
2 def areaOfACircle(circle): 1 usage
3     area = 3.14159 * r**2
4     return area
5
6 r = float(input("Please add your redius here:"))
7 area = areaOfACircle(r)
8 print(f"The area of the circle is: {area: .3f}")
9
```

Run

Unit 4 Function

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\
Please add your redius here:6
The area of the circle is: 113.097

Process finished with exit code 0
```

cop1000

>

Unit 4 Function.py

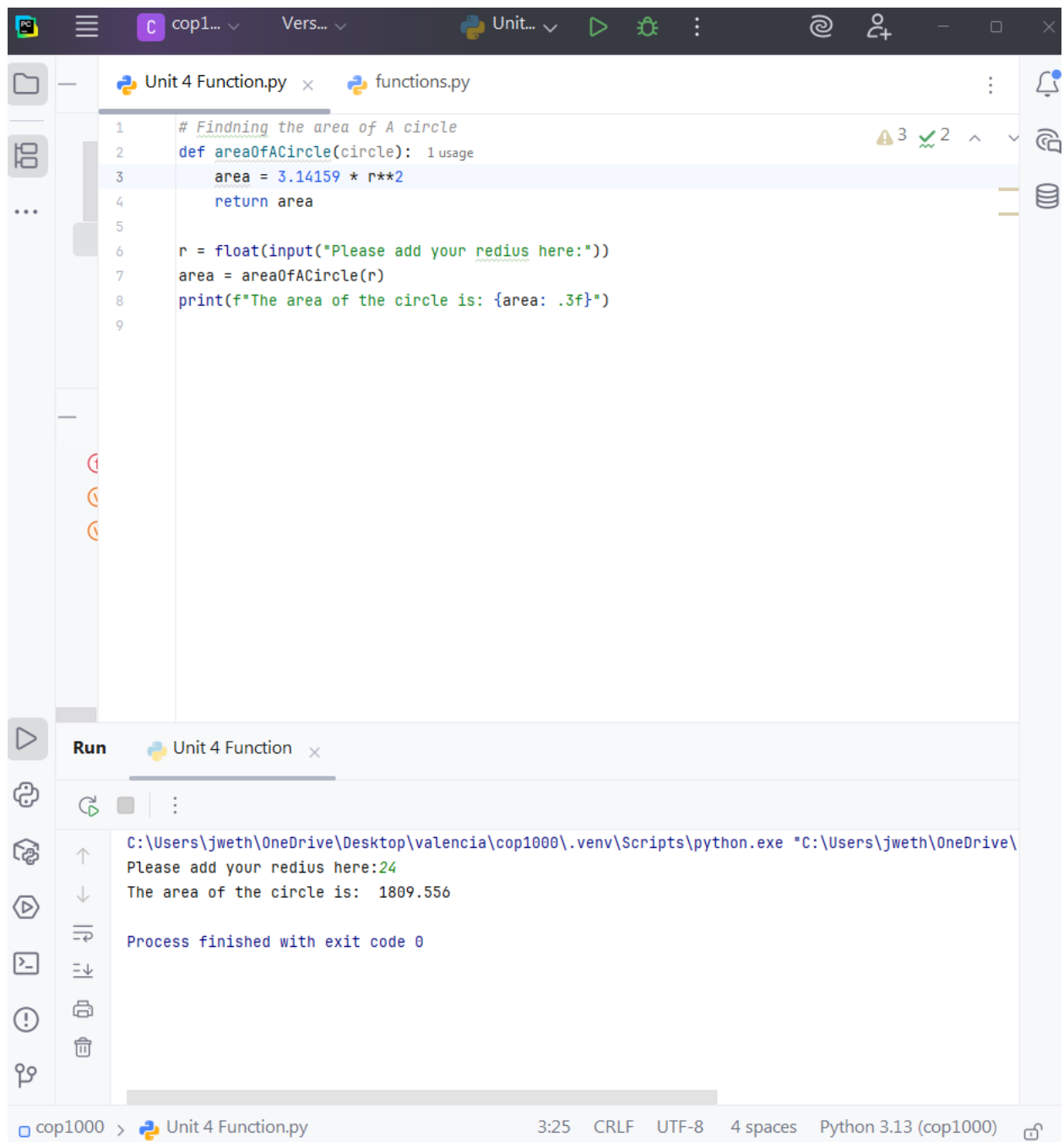
3:25

CRLF

UTF-8

4 spaces

Python 3.13 (cop1000)



```
1 # Finding the area of A circle
2 def areaOfACircle(circle): 1 usage
3     area = 3.14159 * r**2
4     return area
5
6 r = float(input("Please add your radius here:"))
7 area = areaOfACircle(r)
8 print(f"The area of the circle is: {area: .3f}")
9
```


Run Unit 4 Function

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\
Please add your radius here:24
The area of the circle is: 1809.556

Process finished with exit code 0
```

cop1000 > Unit 4 Function.py 3:25 CRLF UTF-8 4 spaces Python 3.13 (cop1000)

Taxes:



```
# Finding the area of A circle
def areaOfACircle(circle): 1 usage
    area = 3.14159 * r**2
    return area

r = float(input("Please add your radius here:"))
area = areaOfACircle(r)
print(f"The area of the circle is: {area: .3f}")

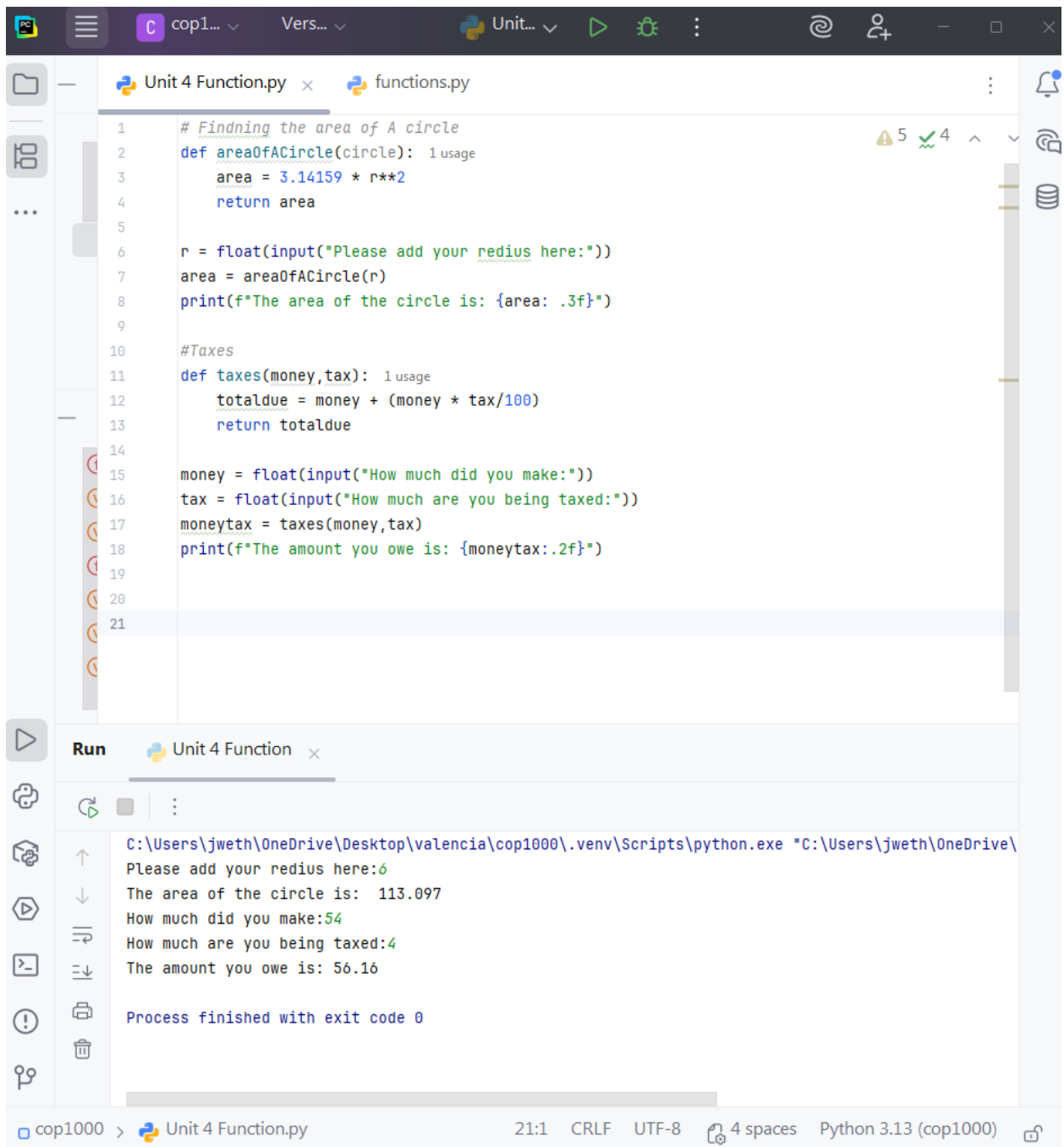
#Taxes
def taxes(money,tax): 1 usage
    totaldue = money + (money * tax/100)
    return totaldue

money = float(input("How much did you make:"))
tax = float(input("How much are you being taxed:"))
moneytax = taxes(money,tax)
print(f"The amount you owe is: {moneytax:.2f}")
```

Run Unit 4 Function

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\
Please add your radius here:20
The area of the circle is: 1256.636
How much did you make:20
How much are you being taxed:6
The amount you owe is: 21.20

Process finished with exit code 0
```



The image shows a Python IDE with two files: 'Unit 4 Function.py' and 'functions.py'. The code in 'Unit 4 Function.py' defines two functions: `areaOfACircle` and `taxes`. The `areaOfACircle` function calculates the area of a circle given its radius. The `taxes` function calculates the total amount due given the money and tax rate. The code also includes input prompts and print statements to demonstrate the functions.

```
1 # Findning the area of A circle
2 def areaOfACircle(circle): 1 usage
3     area = 3.14159 * r**2
4     return area
5
6 r = float(input("Please add your redius here:"))
7 area = areaOfACircle(r)
8 print(f"The area of the circle is: {area: .3f}")
9
10 #Taxes
11 def taxes(money,tax): 1 usage
12     totaldue = money + (money * tax/100)
13     return totaldue
14
15 money = float(input("How much did you make:"))
16 tax = float(input("How much are you being taxed:"))
17 moneytax = taxes(money,tax)
18 print(f"The amount you owe is: {moneytax:.2f}")
19
20
21
```

The terminal window shows the output of the program:

```
Run Unit 4 Function x
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\
Please add your redius here:24
The area of the circle is: 1809.556
How much did you make:68
How much are you being taxed:8
The amount you owe is: 73.44

Process finished with exit code 0
|
```

The status bar at the bottom indicates the file is 'cop1000 > Unit 4 Function.py', the line is 21:1, the encoding is CRLF, the file type is UTF-8, the indentation is 4 spaces, and the Python version is 3.13 (cop1000).

Temperture output:

Unit 4 Function.py

functions.py

15 money = float(input("How much did you make:"))
16 tax = float(input("How much are you being taxed:"))
17 moneytax = taxes(money,tax)
18 print(f"The amount you owe is: {moneytax:.2f}")
19
20 #temperature conversion
21 def temp(fahrenheit):
22 total = (fahrenheit - 32) * (5/9)
23 return total
24
25 yourtemp = float(input("what is the temperature you want to convert:"))
26
27 celsius = temp(yourtemp)
28 print(f"The temperature you are try to convert is.{celsius:.4f}")
29
30
31
32
33

Run

Unit 4 Function

Please add your radius here:10
The area of the circle is: 314.159
How much did you make:20
How much are you being taxed:6
The amount you owe is: 21.20
what is the temperature you want to convert:80
The temperature you are try to convert is.26.6667

Process finished with exit code 0

cop1000 > Unit 4 Function.py 20:25 CRLF UTF-8 4 spaces Python 3.13 (cop1000)

Unit 4 Function.py

functions.py

15

money = float(input("How much did you make:"))

16

tax = float(input("How much are you being taxed:"))

17

moneytax = taxes(money,tax)

18

print(f"The amount you owe is: {moneytax:.2f}")

19

20

#temperature conversion

21

def temp(fahrenheit):

22

total = (fahrenheit - 32) * (5/9)

23

return total

24

25

yourtemp = float(input("what is the temperature you want to convert:"))

26

27

celsius = temp(yourtemp)

28

print(f"The temperature you are try to convert is.{celsius:.4f}")

29

30

31

32

33

Run

Unit 4 Function

Please add your radius here:6

The area of the circle is: 113.097

How much did you make:54

How much are you being taxed:4

The amount you owe is: 56.16

what is the temperature you want to convert:73

The temperature you are try to convert is.22.7778

Process finished with exit code 0

cop1000

Unit 4 Function.py

20:24

CRLF

UTF-8

4 spaces

Python 3.13 (cop1000)

Unit 4 Function.py

functions.py

15

money = float(input("How much did you make:"))

16

tax = float(input("How much are you being taxed:"))

17

moneytax = taxes(money,tax)

18

print(f"The amount you owe is: {moneytax:.2f}")

19

20

#temperature conversion

21

def temp(fahrenheit):

22

total = (fahrenheit - 32) * (5/9)

23

return total

24

25

yourtemp = float(input("what is the temperature you want to convert:"))

26

27

celsius = temp(yourtemp)

28

print(f"The temperature you are try to convert is: {celsius:.4f}")

29

30

31

32

33

Run

Unit 4 Function

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👤

Please add your radius here:24

The area of the circle is: 1809.556

How much did you make:68

How much are you being taxed:8

The amount you owe is: 73.44

what is the temperature you want to convert:42

The temperature you are try to convert is: 5.5556

Process finished with exit code 0

|

cop1000 > Unit 4 Function.py

28:52 CRLF UTF-8 4 spaces Python 3.13 (cop1000)