

FunctionAssignment C:\Users\Owner\PycharmProjects\FunctionAssignment

> .venv library root

main.py

> External Libraries

> Scratches and Consoles

```
1 import math
2
3 def calculate_circle_area(pi_val, radius): 1 usage
4
5     return pi_val * (radius ** 2)
6
7 def calculate_total_due(money, tax_rate): 1 usage
8
9     return money + (money * tax_rate)
10
11 def convert_fahrenheit_to_celsius(fahrenheit): 1 usage
12
13     return (fahrenheit - 32) * (5 / 9)
14
15 if __name__ == "__main__":
16     # Area of a Circle
17     print("--- Area of a Circle ---")
18     radius_input = float(input("Enter the radius of the circle: "))
19     area = calculate_circle_area(math.pi, radius_input)
20     print(f"The area of the circle is: {area:.2f}")
21
22     # Total Due with Tax
23     print("\n--- Total Due with Tax ---")
24     money_input = float(input("Enter the initial amount of money: "))
25     tax_rate_str = input("Enter the tax rate (e.g., 6%): ")
26     tax_rate_decimal = float(tax_rate_str.strip('%')) / 100
27     total_due = calculate_total_due(money_input, tax_rate_decimal)
28     print(f"The total amount due is: {total_due:.2f}")
29
30     # Convert Fahrenheit to Celsius
31     print("\n--- Convert Fahrenheit to Celsius ---")
32     fahrenheit_input = float(input("Enter the temperature in Fahrenheit: "))
33     celsius = convert_fahrenheit_to_celsius(fahrenheit_input)
34     print(f"The temperature in Celsius is: {celsius:.4f}")
```



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```
--- Area of a Circle ---  
Enter the radius of the circle: 10  
The area of the circle is: 314.16  
  
--- Total Due with Tax ---  
Enter the initial amount of money: 20  
Enter the tax rate (e.g., 6%): 6  
The total amount due is: 21.20  
  
--- Convert Fahrenheit to Celsius ---  
Enter the temperature in Fahrenheit: 32  
The temperature in Celsius is: 0.0000  
  
Process finished with exit code 0
```