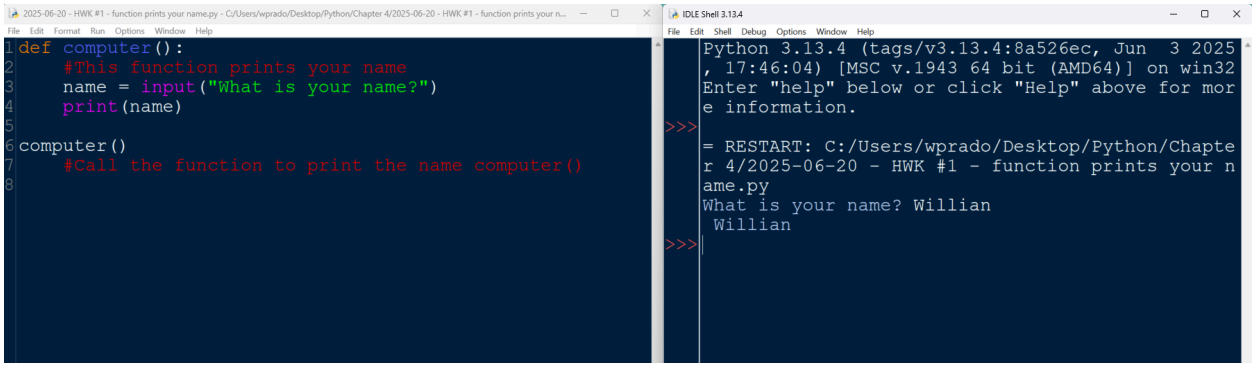
Chapter 5 Functions HW (1)

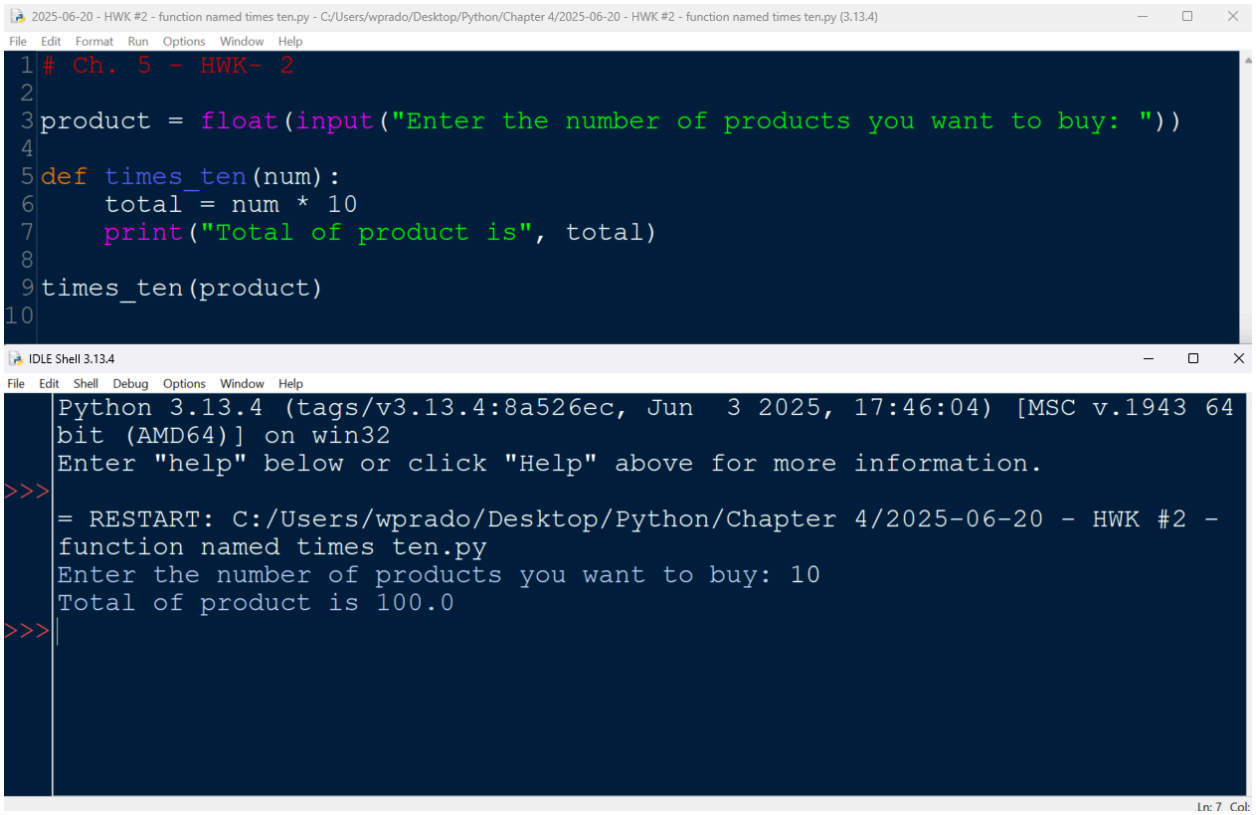
#1. Write a function named **computer()** that prints your name.



```
def computer():
    #This function prints your name
    name = input("What is your name?")
    print(name)

computer()
    #Call the function to print the name computer()
```

```
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun  3 2025, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
= RESTART: C:/Users/wprado/Desktop/Python/Chapter 4/2025-06-20 - HWK #1 - function prints your name.py
What is your name? Willian
 Willian
>>>
```

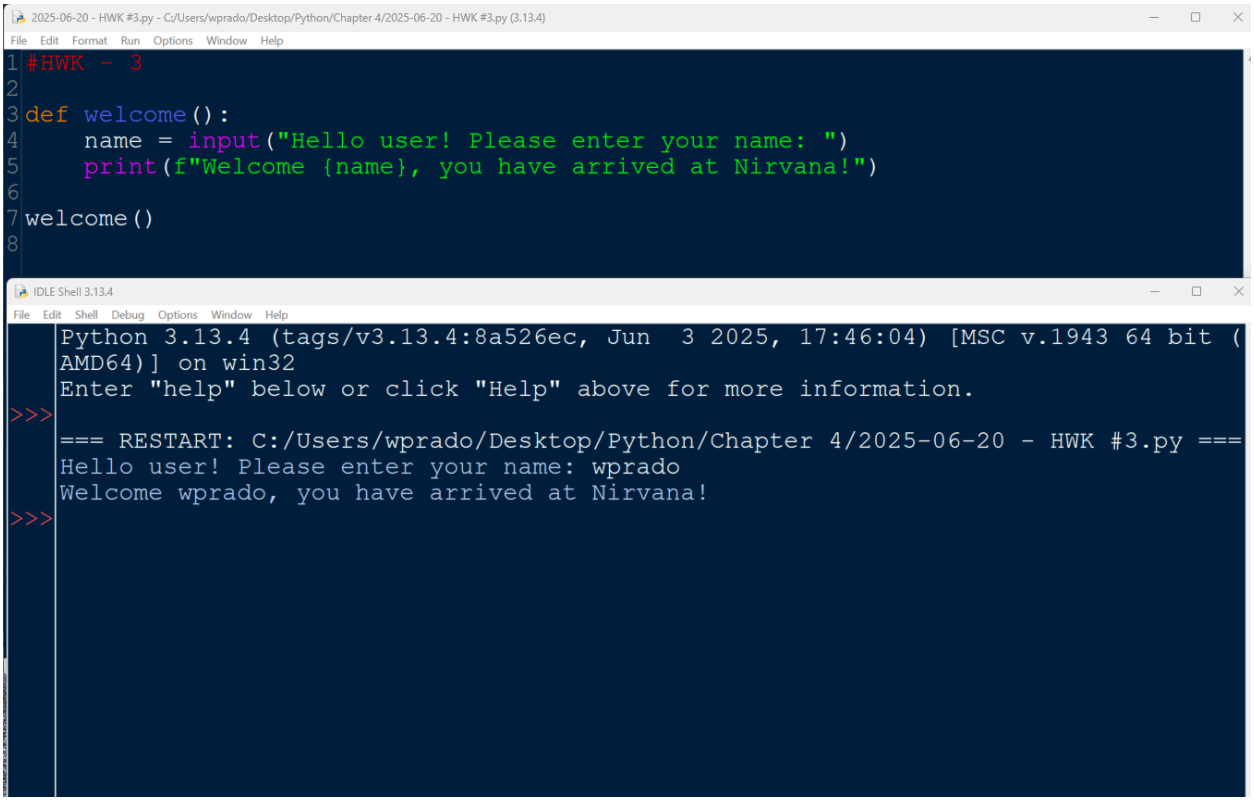
#2. Write a function named **times_ten()** the function should accept an argument from a user and display the product of its argument multiplied times 10.



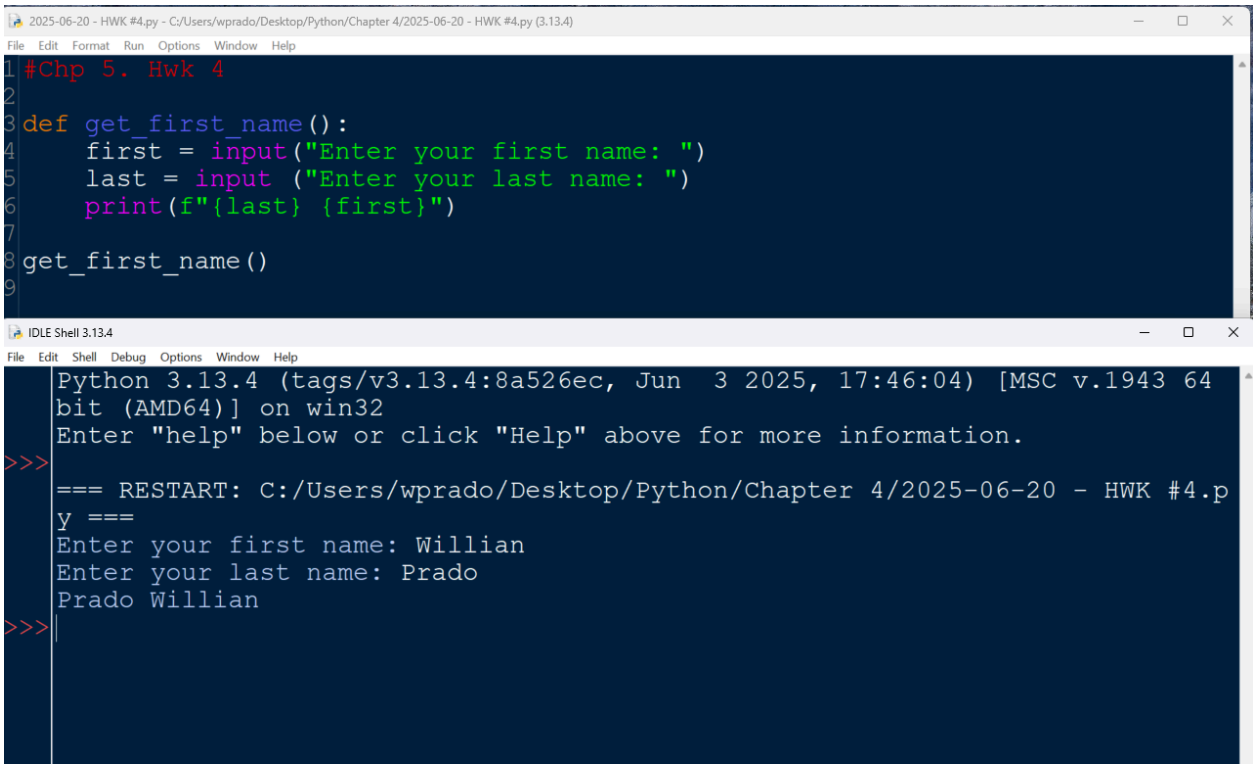
```
# Ch. 5 - HWK- 2

product = float(input("Enter the number of products you want to buy: "))

def times_ten(num):
    total = num * 10
    print("Total of product is", total)

times_ten(product)
```

```
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun  3 2025, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
= RESTART: C:/Users/wprado/Desktop/Python/Chapter 4/2025-06-20 - HWK #2 - function named times ten.py
Enter the number of products you want to buy: 10
Total of product is 100.0
>>>
```

#3. Write a function named **welcome()** that asks the user to enter his or her name and displays it followed by a welcome message.



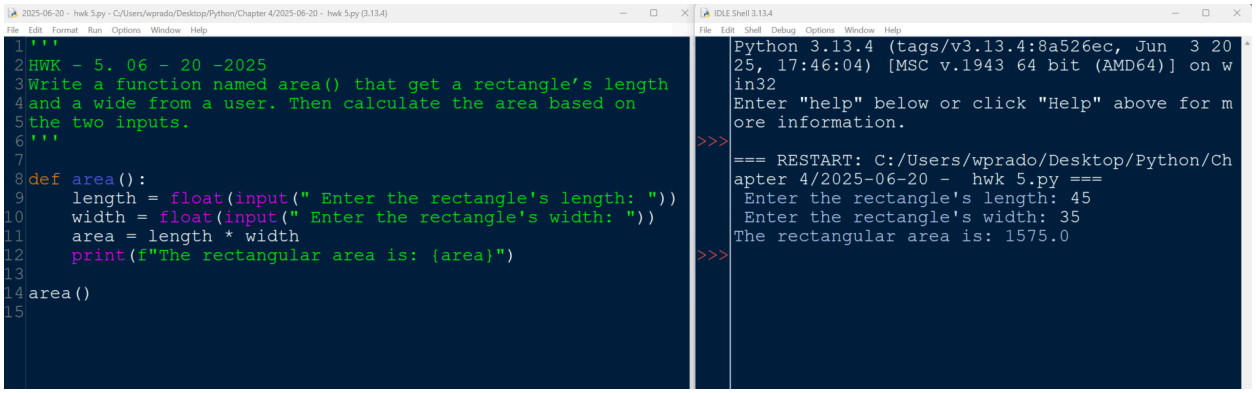
#4. Write a function named **get_first_name()** that asks the user to enter his or her first name and their last name on two separate lines. Then print last name first, and first name last.



```
#Chp 5. Hwk 4

def get_first_name():
    first = input("Enter your first name: ")
    last = input ("Enter your last name: ")
    print(f"{last} {first}")

get_first_name()
```

```
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun  3 2025, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
=== RESTART: C:/Users/wprado/Desktop/Python/Chapter 4/2025-06-20 - HWK #4.py ===
Enter your first name: Willian
Enter your last name: Prado
Prado Willian
>>>
```

#5. Write a function named **area()** that get a rectangle's length and a wide from a user. Then calculate the area based on the two inputs.



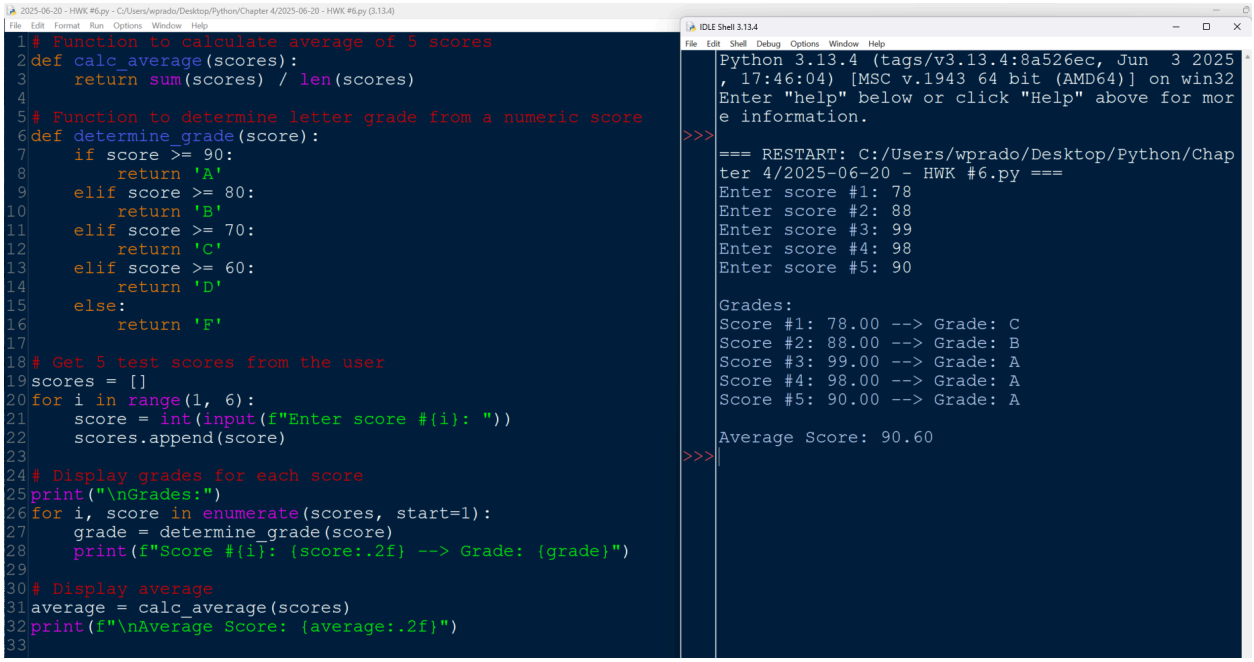
```
'''
HWK - 5. 06 - 20 -2025
Write a function named area() that get a rectangle's length
and a wide from a user. Then calculate the area based on
the two inputs.
'''

def area():
    length = float(input(" Enter the rectangle's length: "))
    width = float(input(" Enter the rectangle's width: "))
    area = length * width
    print(f"The rectangular area is: {area}")

area()
```

```
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun  3 2025, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
=== RESTART: C:/Users/wprado/Desktop/Python/Chapter 4/2025-06-20 -  hwk 5.py ===
 Enter the rectangle's length: 45
 Enter the rectangle's width: 35
The rectangular area is: 1575.0
>>>
```

#6. Write a program that asks the user to enter 5 test scores. the program should display a letter grade for each score and the average test score. Write the following functions in the program:

calc_average – function should accept 5 scores and arguments an return the average of the scores determine_grade – function should accept a test score as an argument and return a letter grade for the score based on the following grading scale:

90-100A
80-89B
70-79C
60-69D
Below 60F



```python
# Function to calculate average of 5 scores
def calc_average(scores):
    return sum(scores) / len(scores)

# Function to determine letter grade from a numeric score
def determine_grade(score):
    if score >= 90:
        return 'A'
    elif score >= 80:
        return 'B'
    elif score >= 70:
        return 'C'
    elif score >= 60:
        return 'D'
    else:
        return 'F'

# Get 5 test scores from the user
scores = []
for i in range(1, 6):
    score = int(input(f"Enter score #{i}: "))
    scores.append(score)

# Display grades for each score
print("\nGrades:")
for i, score in enumerate(scores, start=1):
    grade = determine_grade(score)
    print(f"Score #{i}: {score:.2f} --> Grade: {grade}")

# Display average
average = calc_average(scores)
print(f"\nAverage Score: {average:.2f}")
```

```
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun  3 2025
, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for mor
e information.
>>>

=== RESTART: C:/Users/wprado/Desktop/Python/Chap
ter 4/2025-06-20 - HWK #6.py ===
Enter score #1: 78
Enter score #2: 88
Enter score #3: 99
Enter score #4: 98
Enter score #5: 90

Grades:
Score #1: 78.00 --> Grade: C
Score #2: 88.00 --> Grade: B
Score #3: 99.00 --> Grade: A
Score #4: 98.00 --> Grade: A
Score #5: 90.00 --> Grade: A

Average Score: 90.60
>>>
```