Thomas Nguyen / Albert Nguyen
CS131-47853 MW 06:00 PM – 08:30 PM
Chapter 4 Lab: 4a – 4h

```python
#Lab 5A
#The definition for the function includes a forumla for sums which calculates then returns the result
def find_sum(userNum):
    result = ((userNum * (userNum + 1))/2)
    userNum = result
    print(userNum)
    return userNum

#User input stored in variable and converted to integer to then be calculated with the def
userNum = int(input("Enter an integer: "))
find_sum(userNum)
```

5a_Code

```
Enter an integer: 3
6.0
>
```

```
Enter an integer: 10
55.0
>
```

5a_Output

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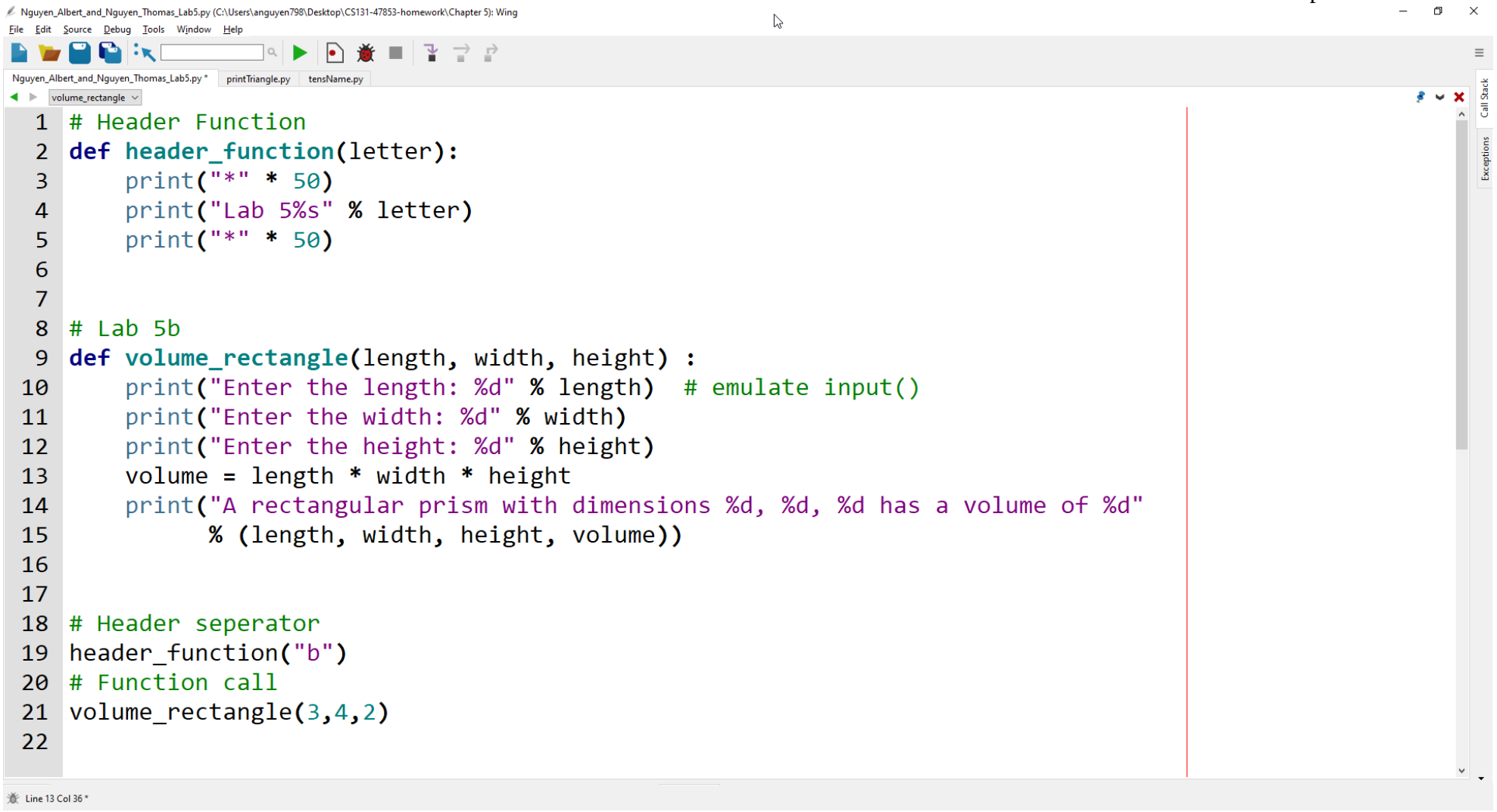


```python
# Header Function
def header_function(letter):
    print("*" * 50)
    print("Lab 5%s" % letter)
    print("*" * 50)


# Lab 5b
def volume_rectangle(length, width, height) :
    print("Enter the length: %d" % length)  # emulate input()
    print("Enter the width: %d" % width)
    print("Enter the height: %d" % height)
    volume = length * width * height
    print("A rectangular prism with dimensions %d, %d, %d has a volume of %d"
          % (length, width, height, volume))


# Header seperator
header_function("b")
# Function call
volume_rectangle(3,4,2)

```

5b_Code

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Python Shell: Wing

Python Shell

Commands execute without debug. Use arrow keys for history.

```
Python 3.9.7 (default, Sep 16 2021, 16:59:28) [MSC v.1916 64 bit (AMD64)]
Type "help", "copyright", "credits" or "license" for more information.
>>> [evaluate Nguyen_Albert_and_Nguyen_Thomas_Lab5.py]
**********************************************
Lab 5b
**********************************************
Enter the length: 3
Enter the width: 4
Enter the height: 2
A rectangular prism with dimensions 3, 4, 2 has a volume of 24
>>>
```

5b_Output