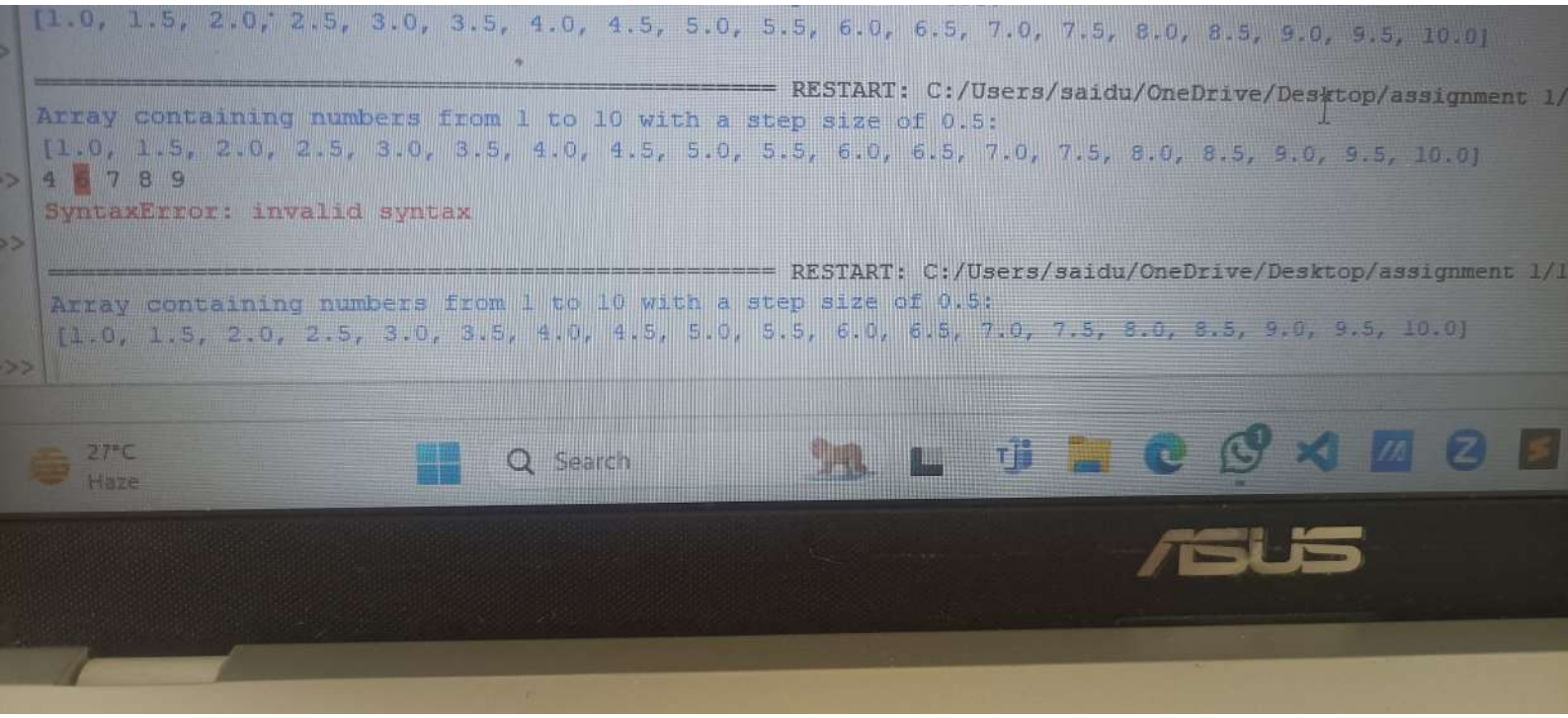
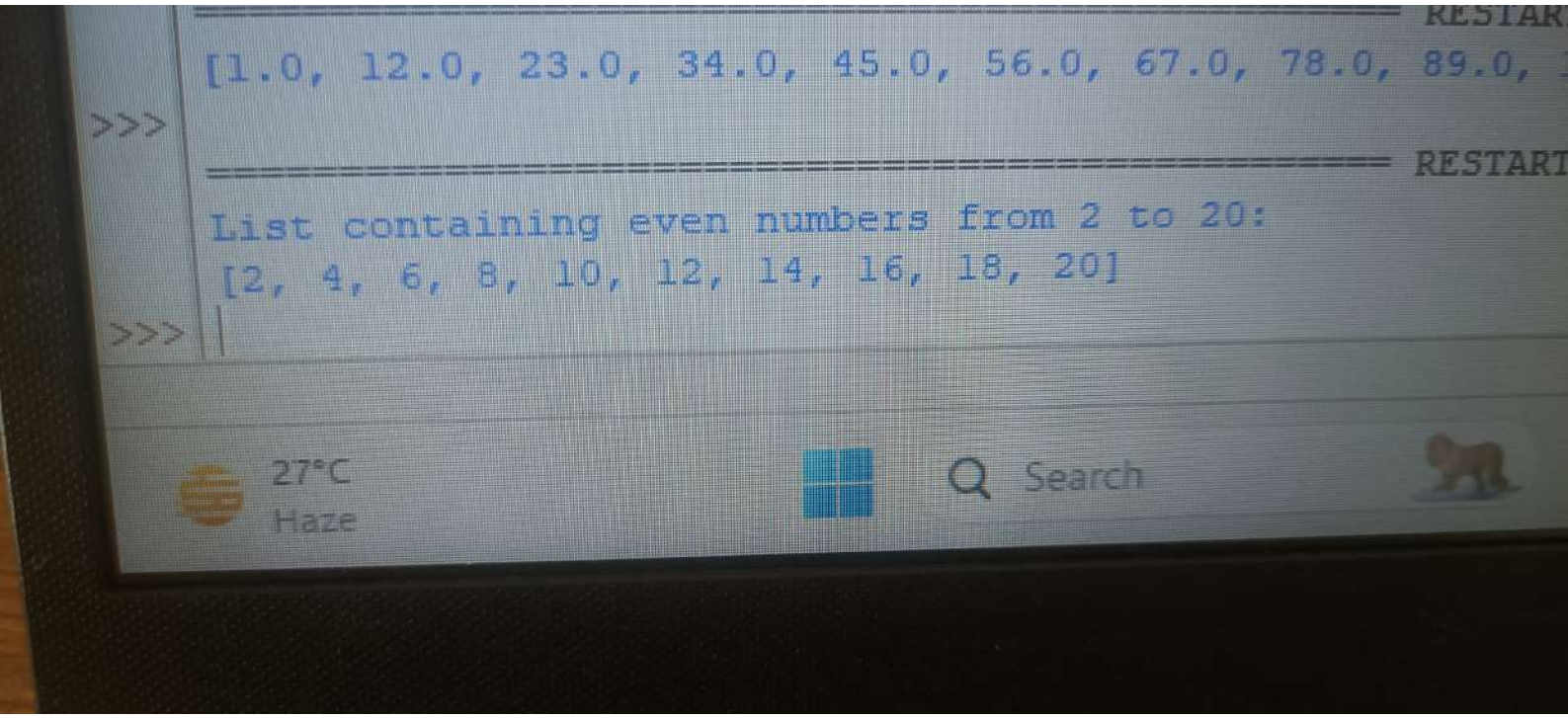
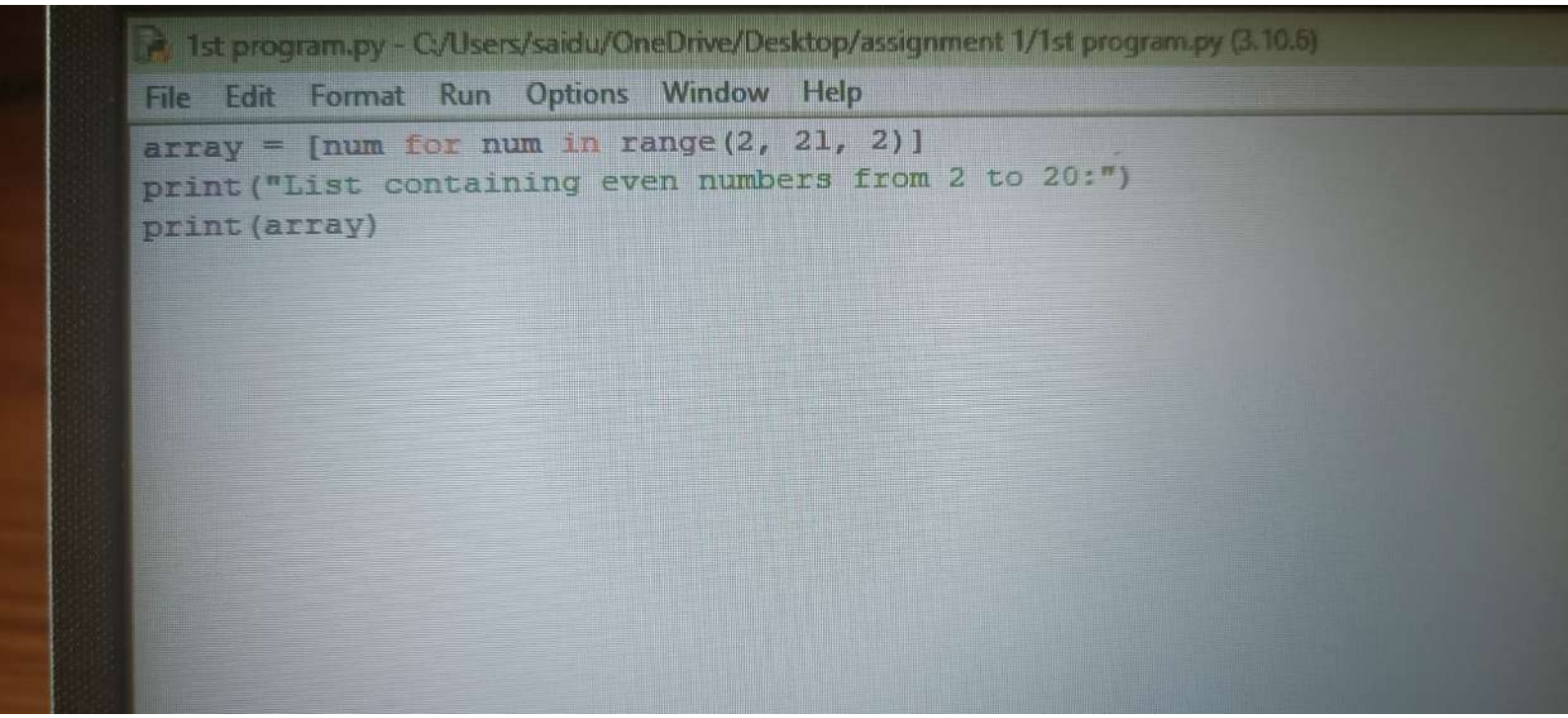

[1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0]
========== RESTART: C:/Users/saidu/OneDrive/Desktop/assignment 1/
Array containing numbers from 1 to 10 with a step size of 0.5:
[1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0]
4 5 7 8 9
SyntaxError: invalid syntax
========== RESTART: C:/Users/saidu/OneDrive/Desktop/assignment 1/1
Array containing numbers from 1 to 10 with a step size of 0.5:
[1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0]
27°C
Haze
Search
ASUS

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)

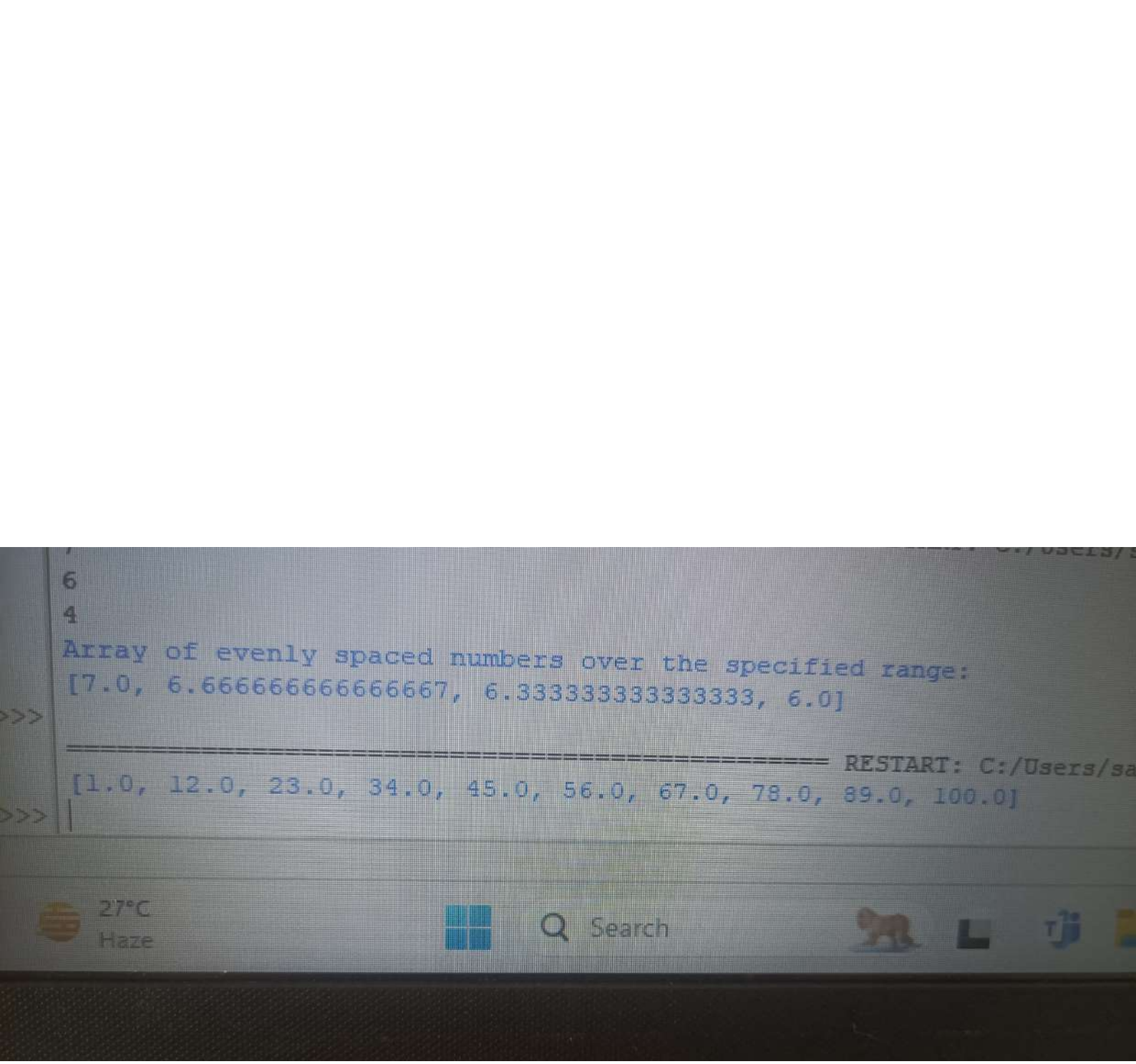
File Edit Format Run Options Window Help

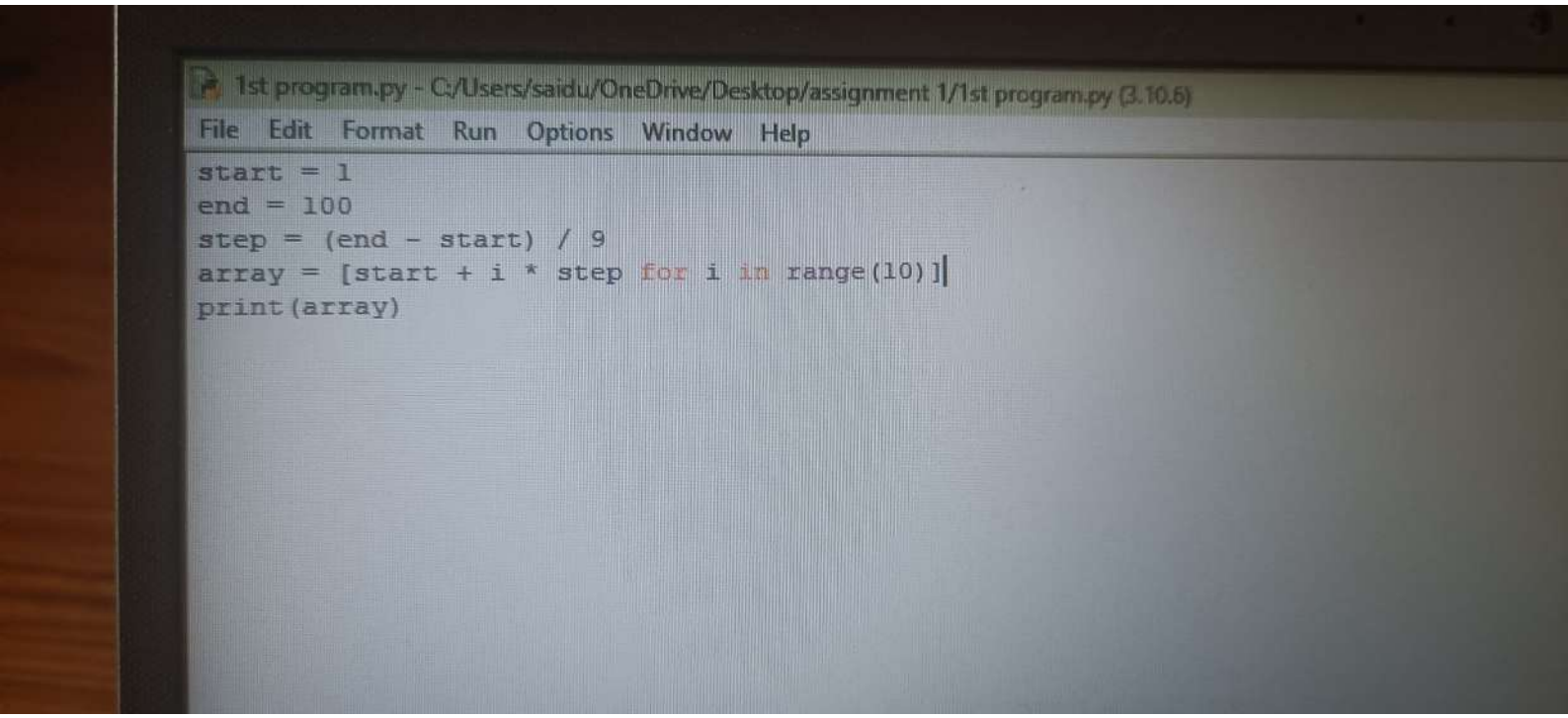
```
array = []
num = 1.0
while num <= 10:
    array.append(num)
    num += 0.5
print("Array containing numbers from 1 to 10 with a step size of 0.5:")
print(array)
```

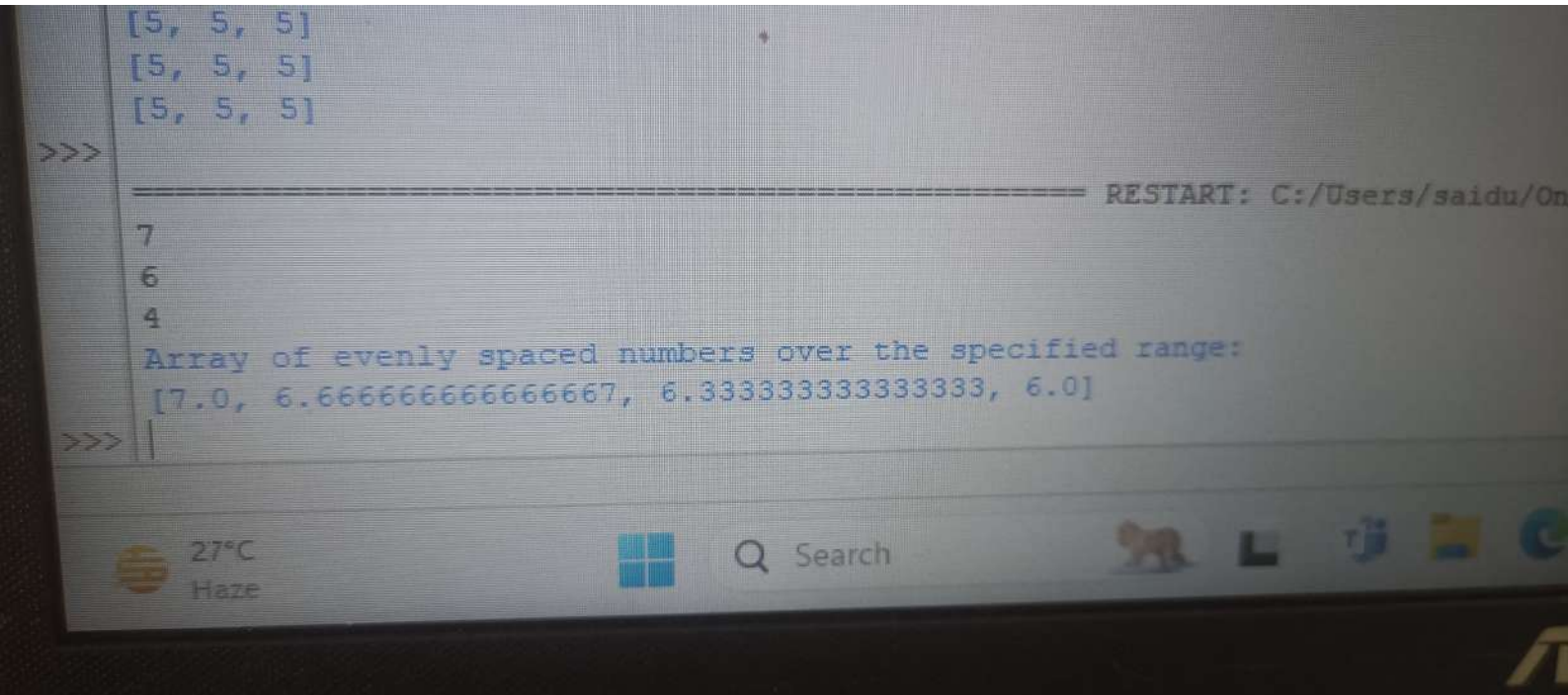

========== RESTAR
[1.0, 12.0, 23.0, 34.0, 45.0, 56.0, 67.0, 78.0, 89.0,
>>>
========== RESTART
List containing even numbers from 2 to 20:
[2, 4, 6, 8, 10, 12, 14, 16, 18, 20]
>>>
27°C
Haze
Search

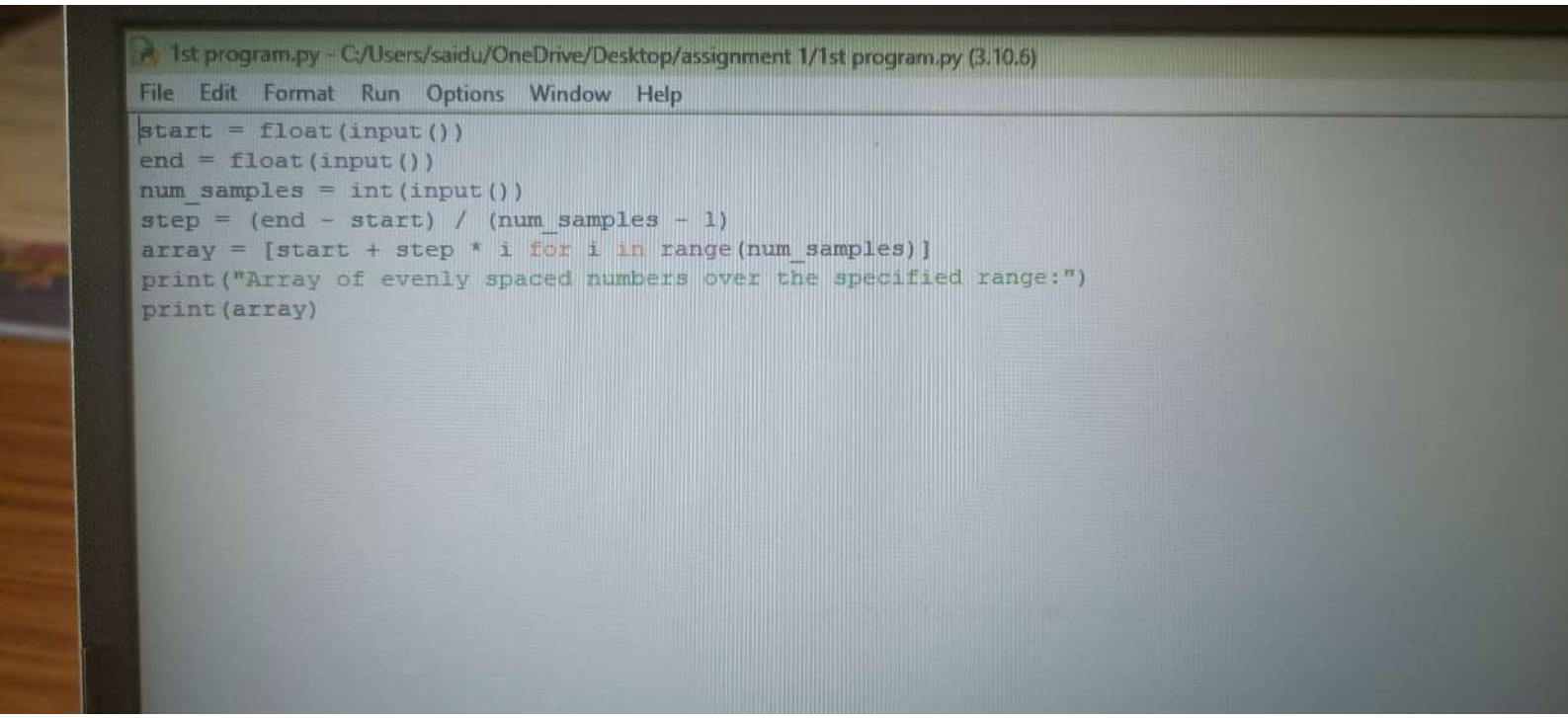

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
array = [num for num in range(2, 21, 2)]
print("List containing even numbers from 2 to 20:")
print(array)

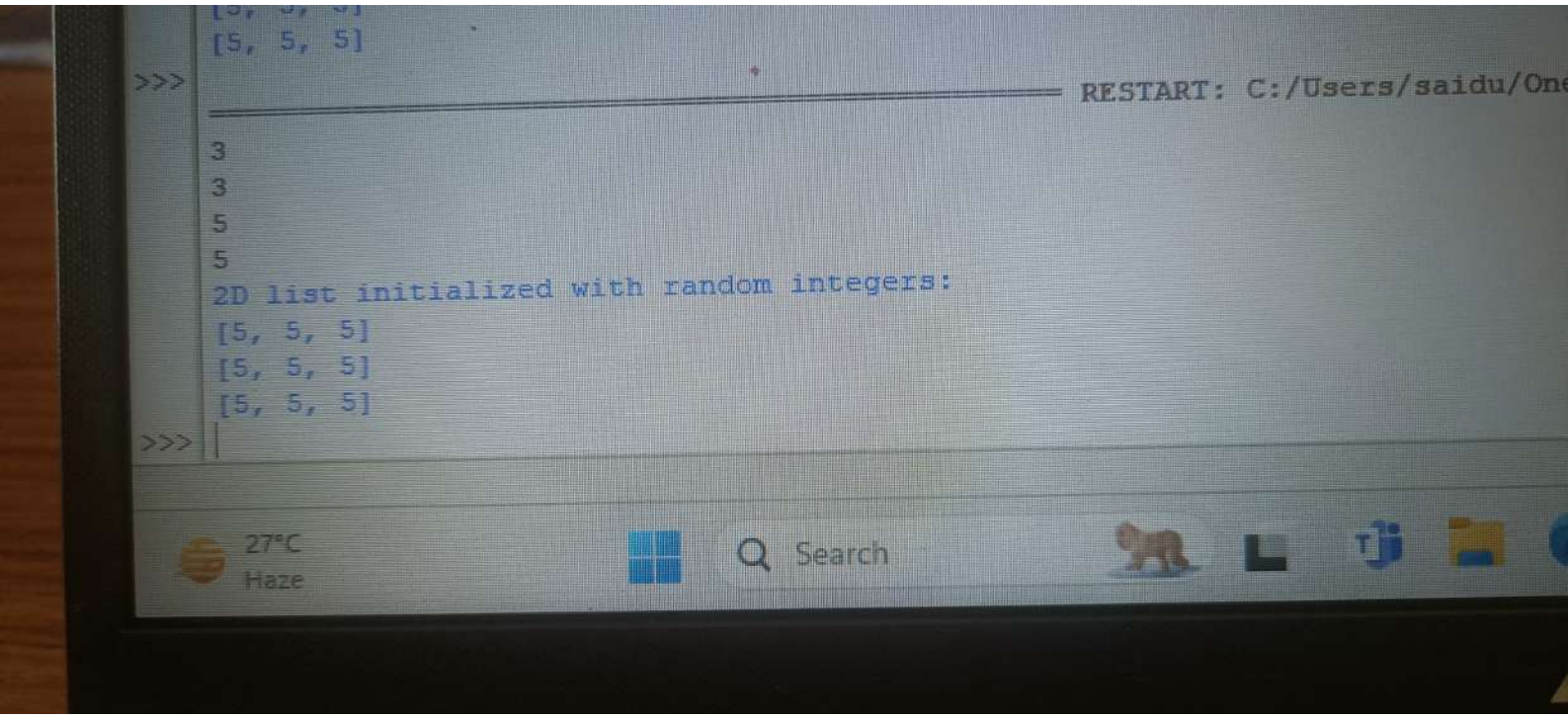
```
6
4
Array of evenly spaced numbers over the specified range:
[7.0, 6.666666666666667, 6.333333333333333, 6.0]
>>>
========== RESTART: C:/Users/sa
[1.0, 12.0, 23.0, 34.0, 45.0, 56.0, 67.0, 78.0, 89.0, 100.0]
>>>
```

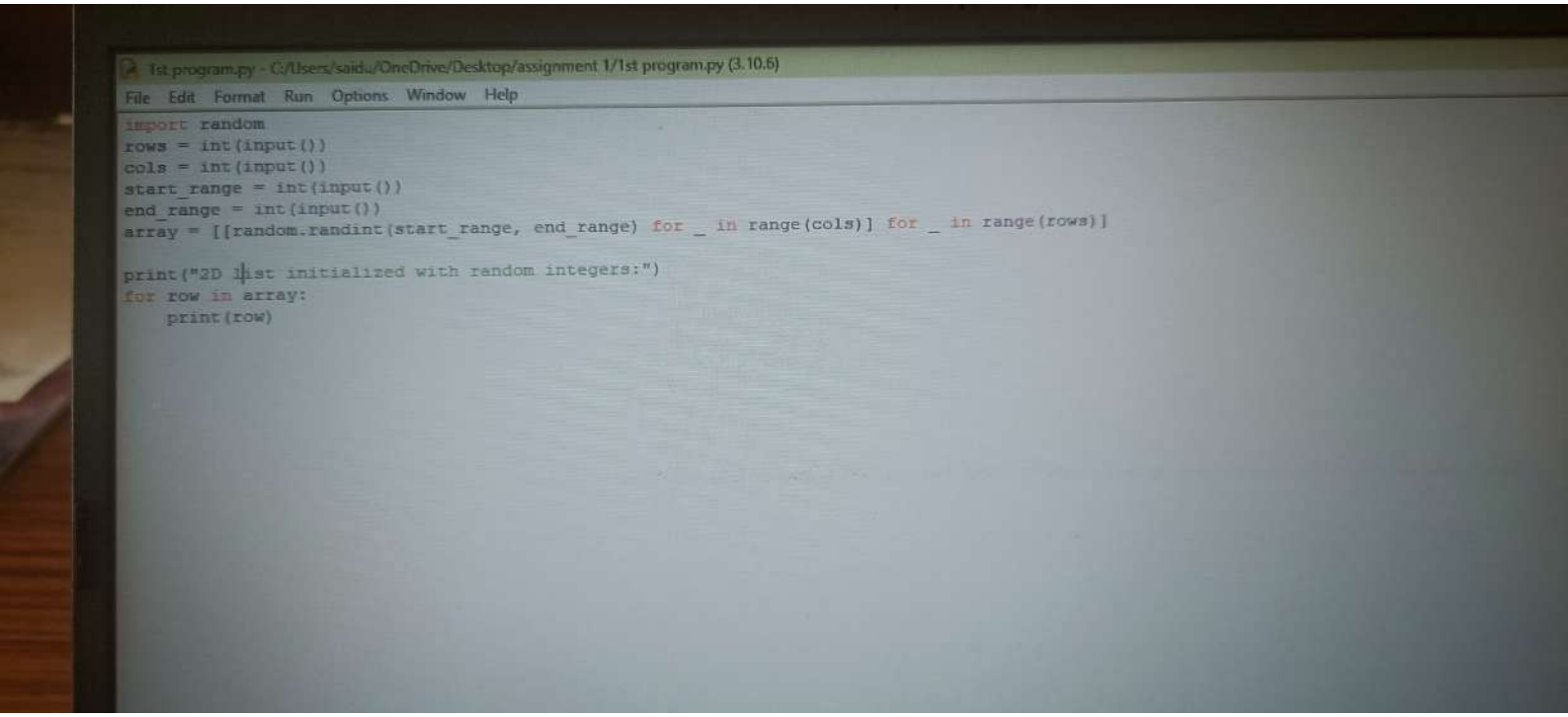


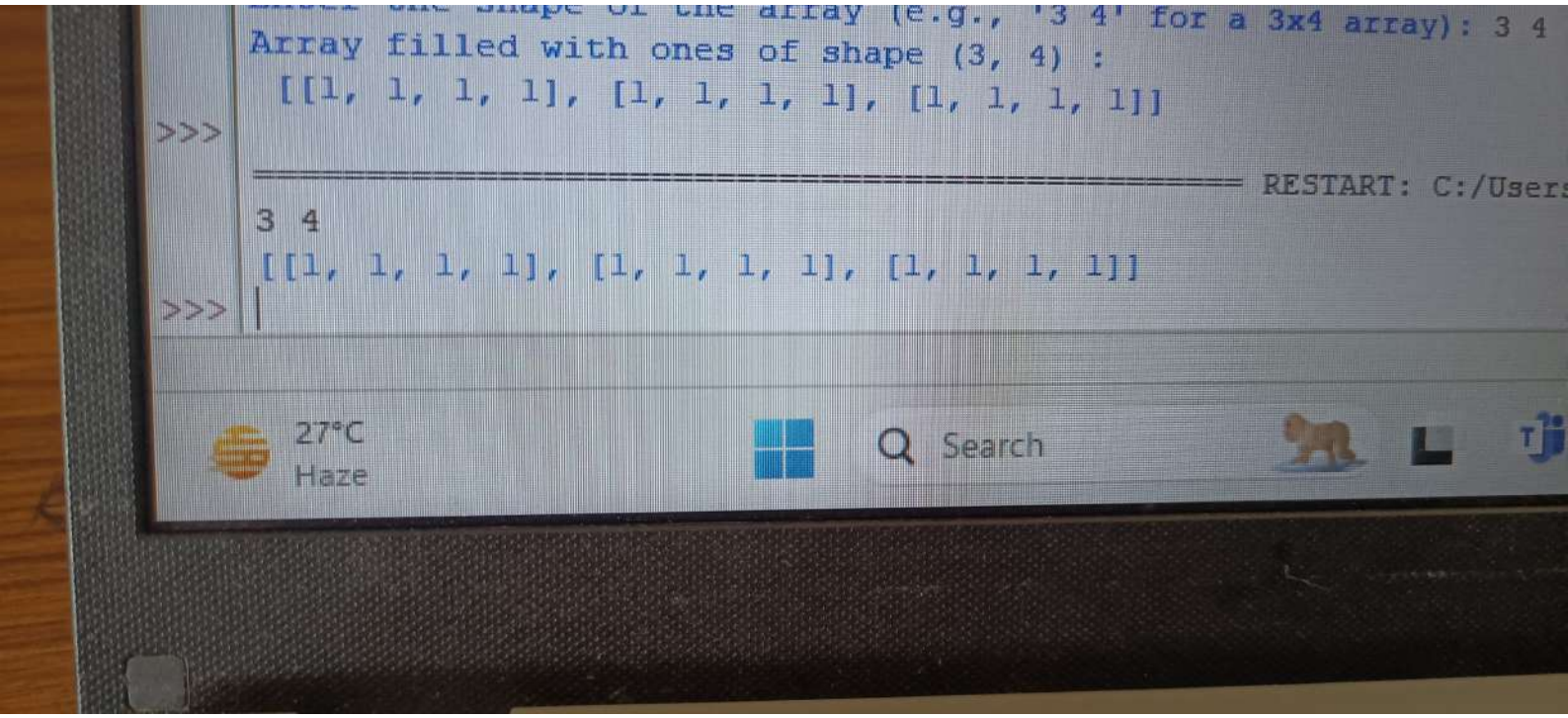

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
start = 1
end = 100
step = (end - start) / 9
array = [start + i * step for i in range(10)]
print(array)

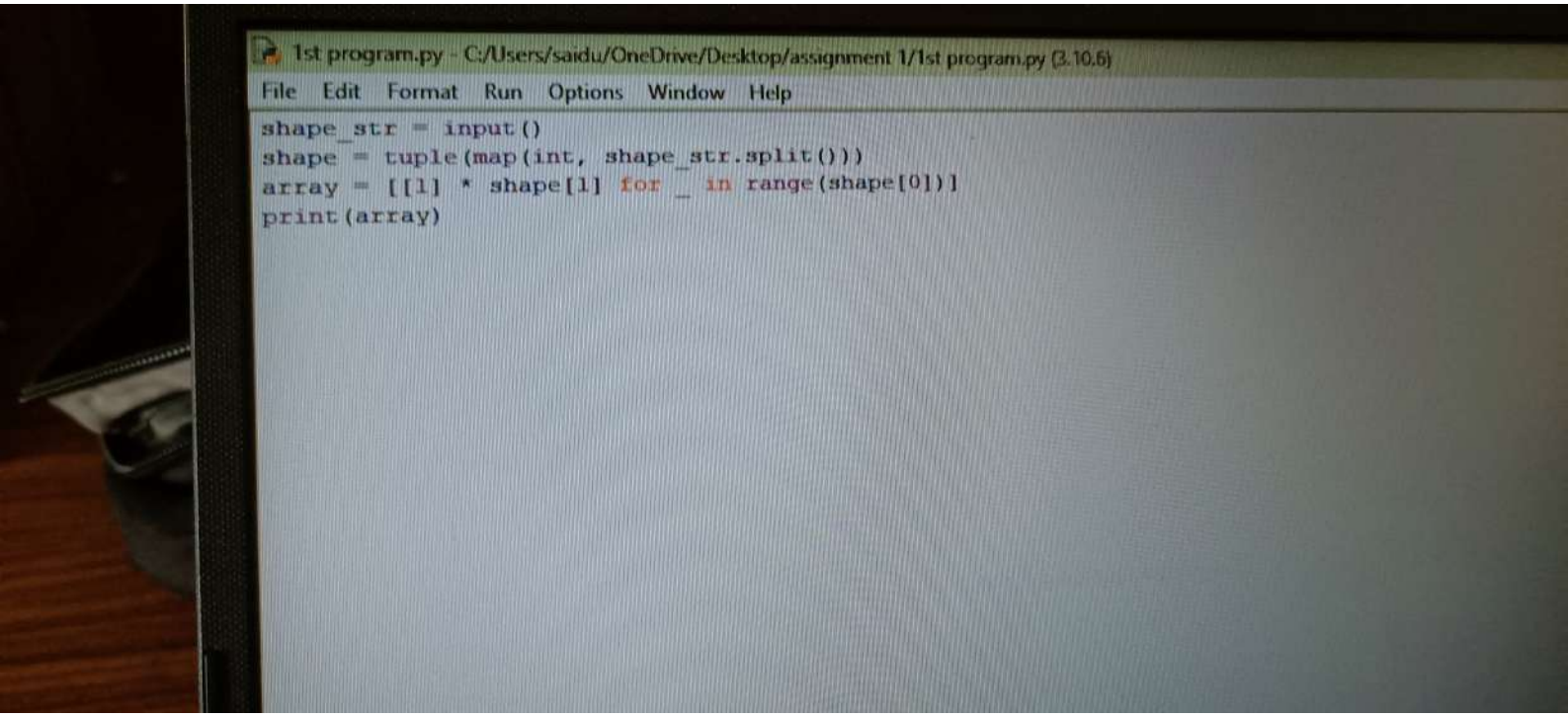

[5, 5, 5]
[5, 5, 5]
[5, 5, 5]
>>>
========== RESTART: C:/Users/saidu/On
7
6
4
Array of evenly spaced numbers over the specified range:
[7.0, 6.666666666666667, 6.333333333333333, 6.0]
>>>
27°C
Haze
Search

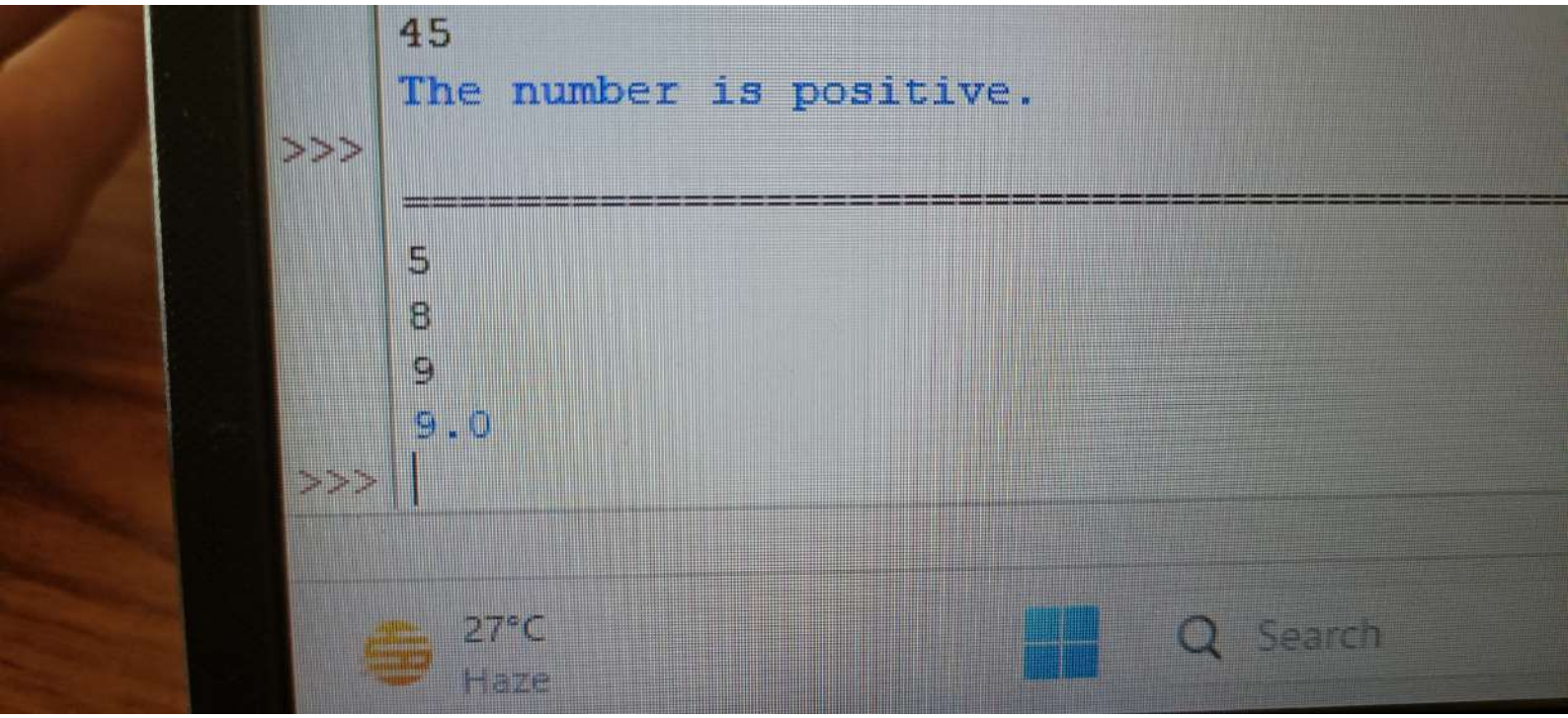

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
start = float(input())
end = float(input())
num_samples = int(input())
step = (end - start) / (num_samples - 1)
array = [start + step * i for i in range(num_samples)]
print("Array of evenly spaced numbers over the specified range:")
print(array)

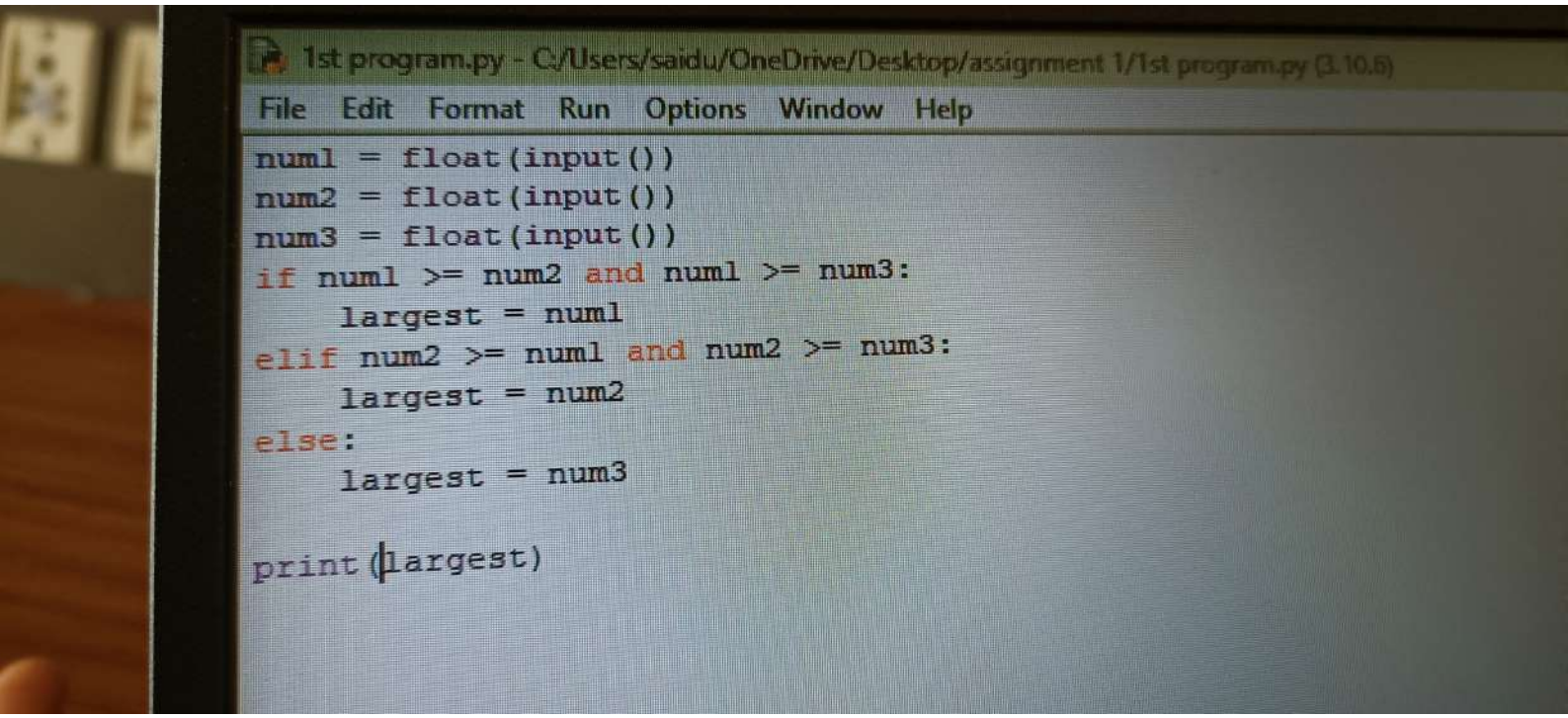

[5, 5, 5]
>>>
RESTART: C:/Users/saidu/On
3
3
5
5
2D list initialized with random integers:
[5, 5, 5]
[5, 5, 5]
[5, 5, 5]
>>>
27°C
Haze
Search

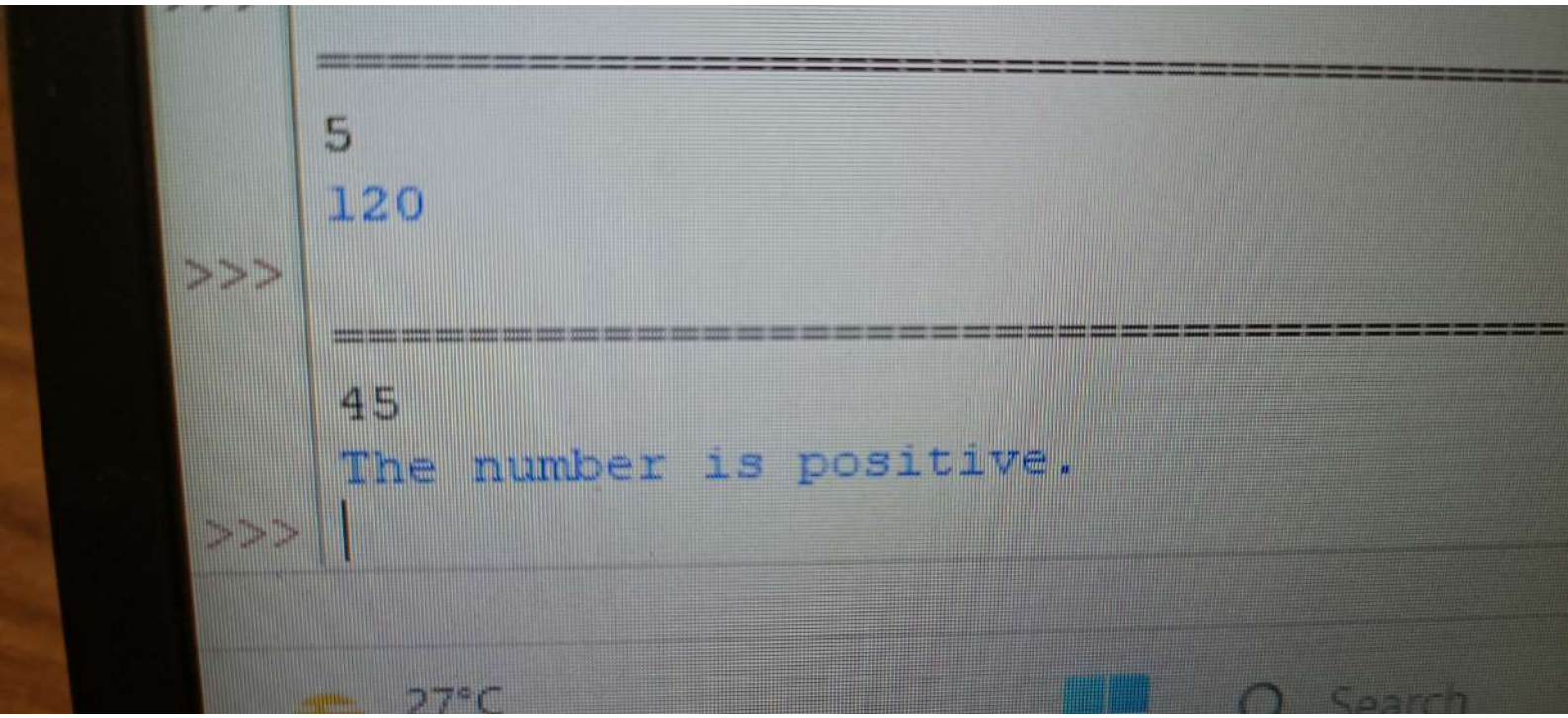

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
import random
rows = int(input())
cols = int(input())
start_range = int(input())
end_range = int(input())
array = [[random.randint(start_range, end_range) for _ in range(cols)] for _ in range(rows)]
print("2D list initialized with random integers:")
for row in array:
print(row)

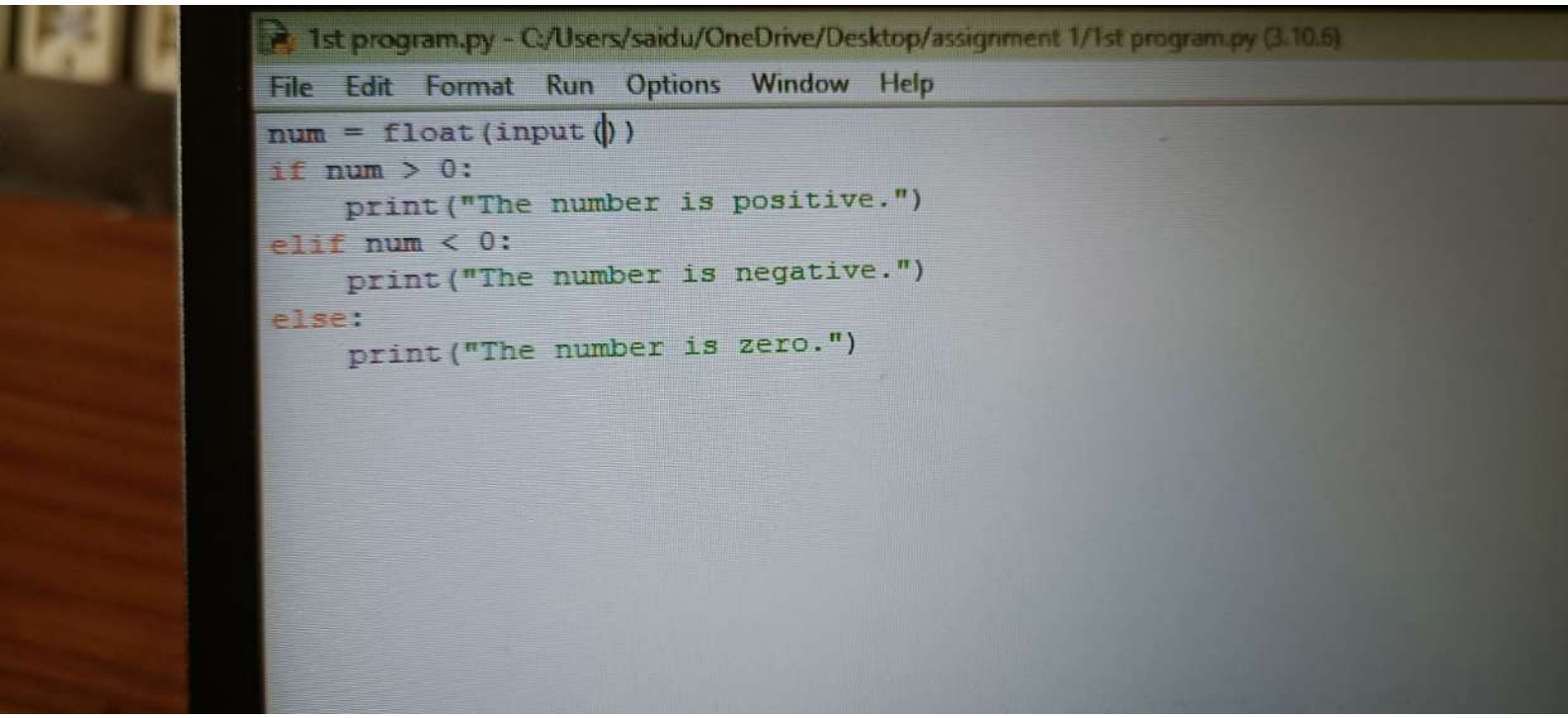

Enter the shape of the array (e.g., '3 4' for a 3x4 array): 3 4
Array filled with ones of shape (3, 4) :
[[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]
>>>
========== RESTART: C:/Users
3 4
[[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]
>>>
27°C
Haze
Search

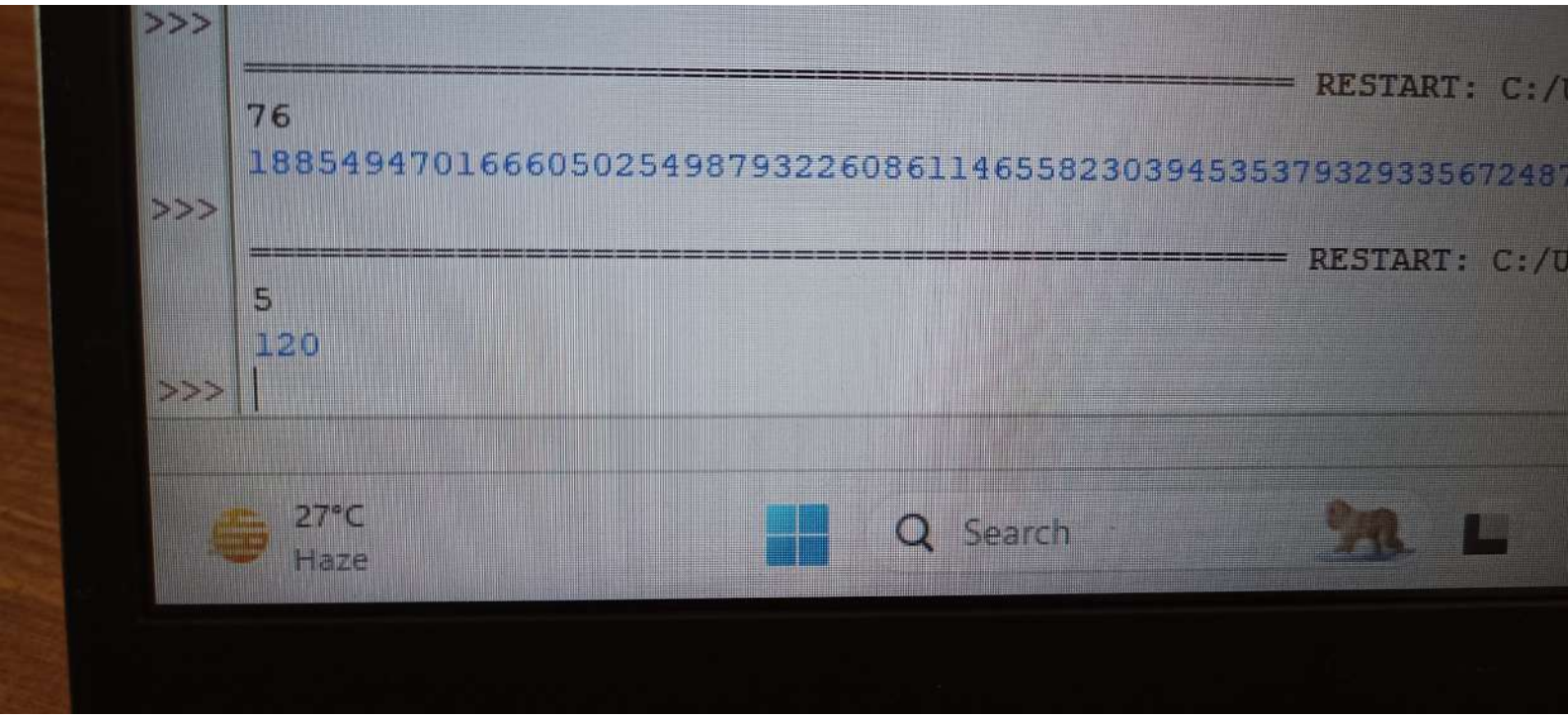

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
shape_str = input()
shape = tuple(map(int, shape_str.split()))
array = [[1] * shape[1] for _ in range(shape[0])]
print(array)

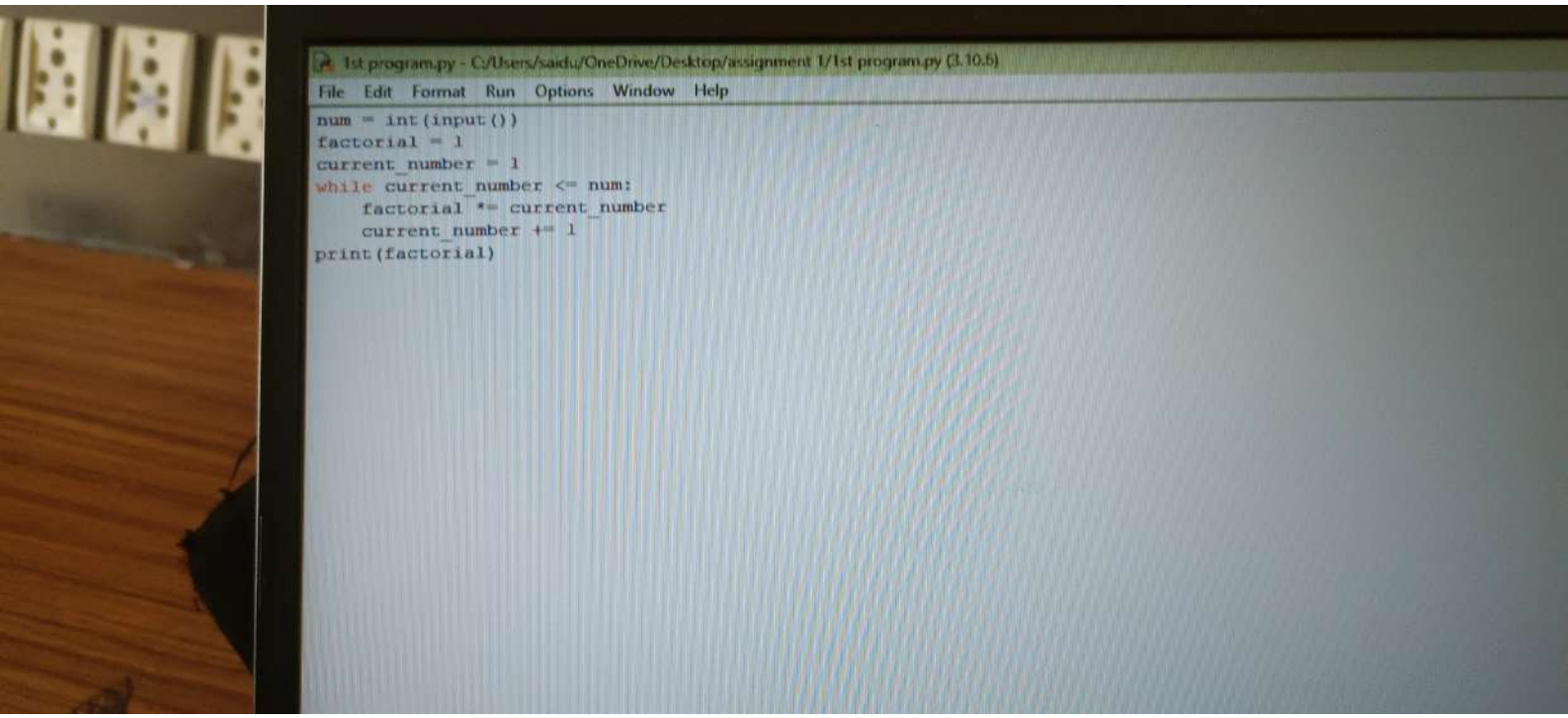

45
The number is positive.
>>>
5
8
9
9.0
>>>
27°C
Haze
Search

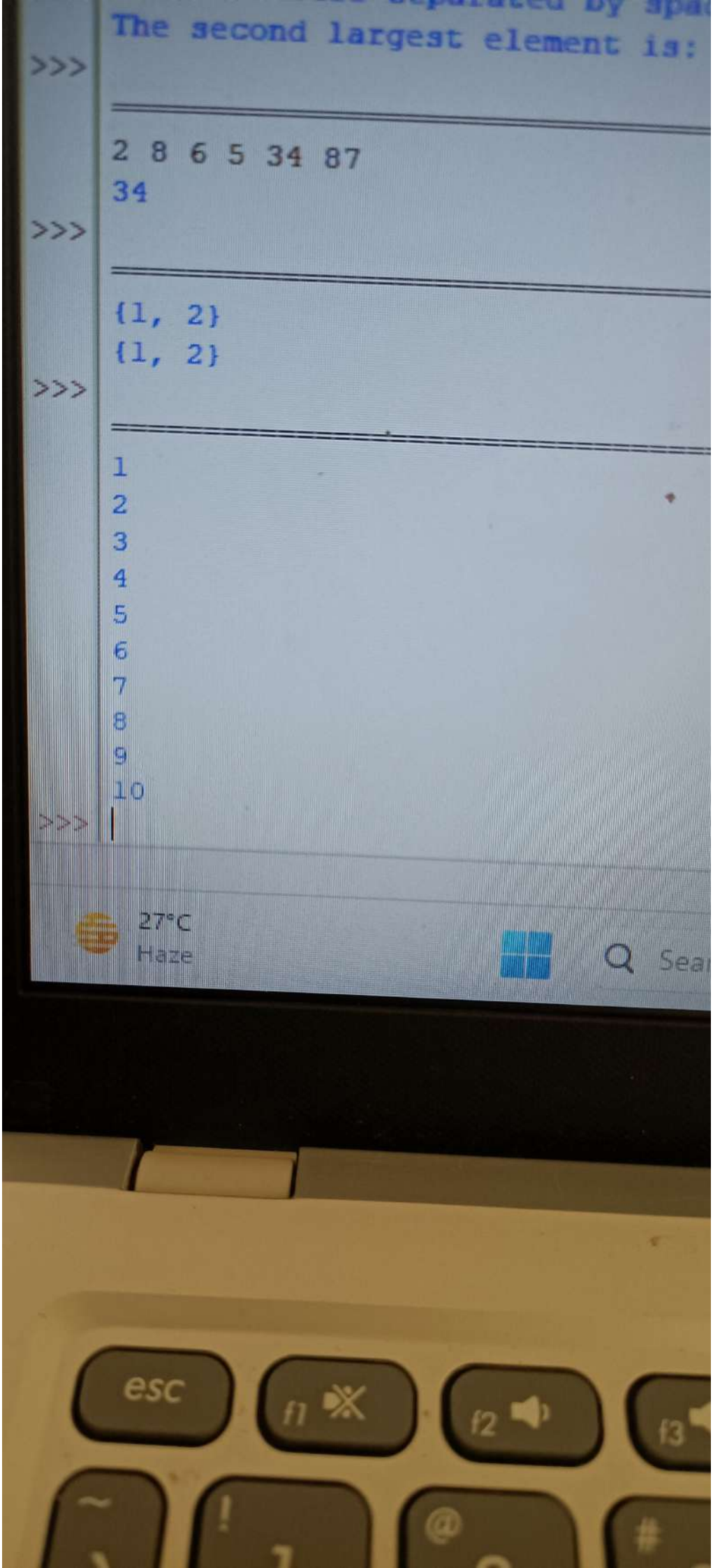

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
num1 = float(input())
num2 = float(input())
num3 = float(input())
if num1 >= num2 and num1 >= num3:
largest = num1
elif num2 >= num1 and num2 >= num3:
largest = num2
else:
largest = num3
print(largest)

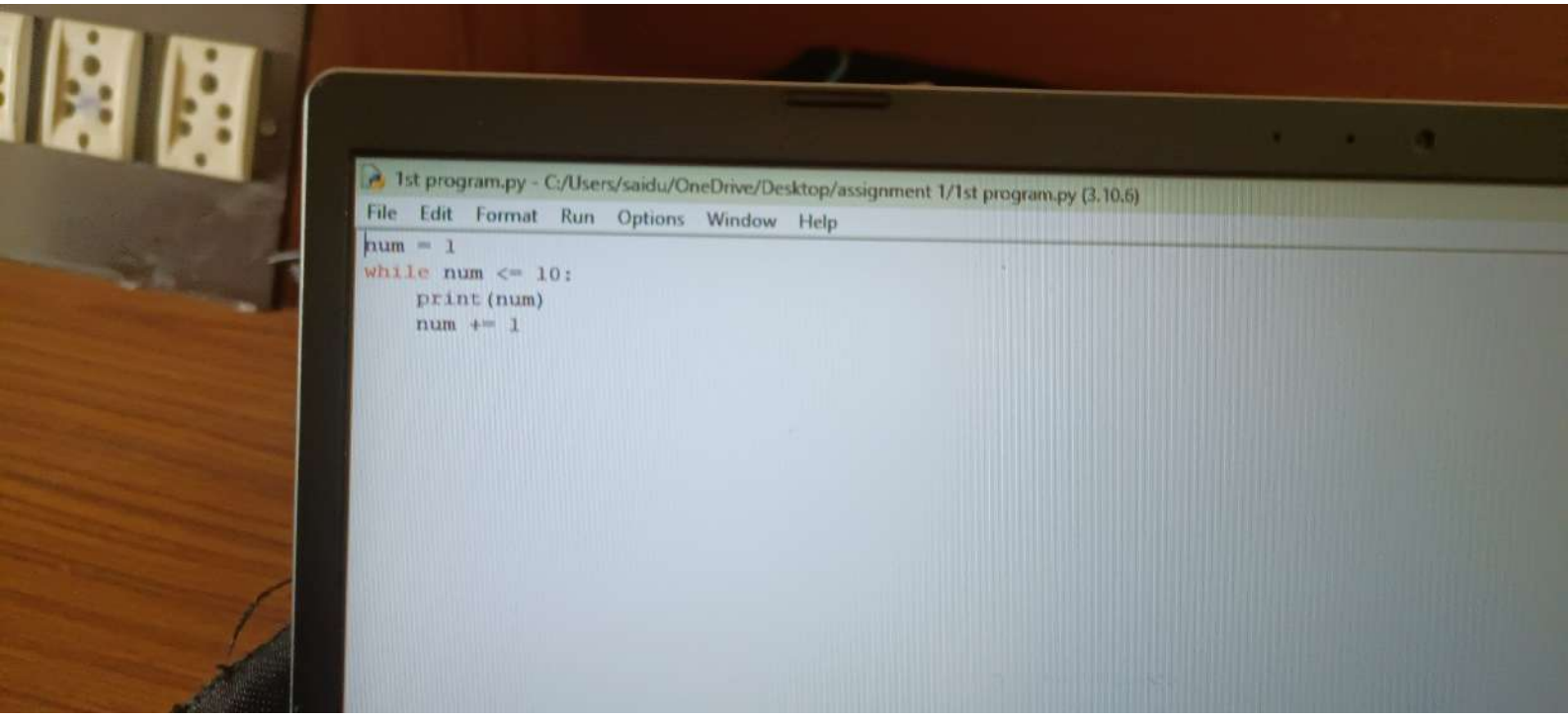

5
120
>>>
45
The number is positive.
>>>

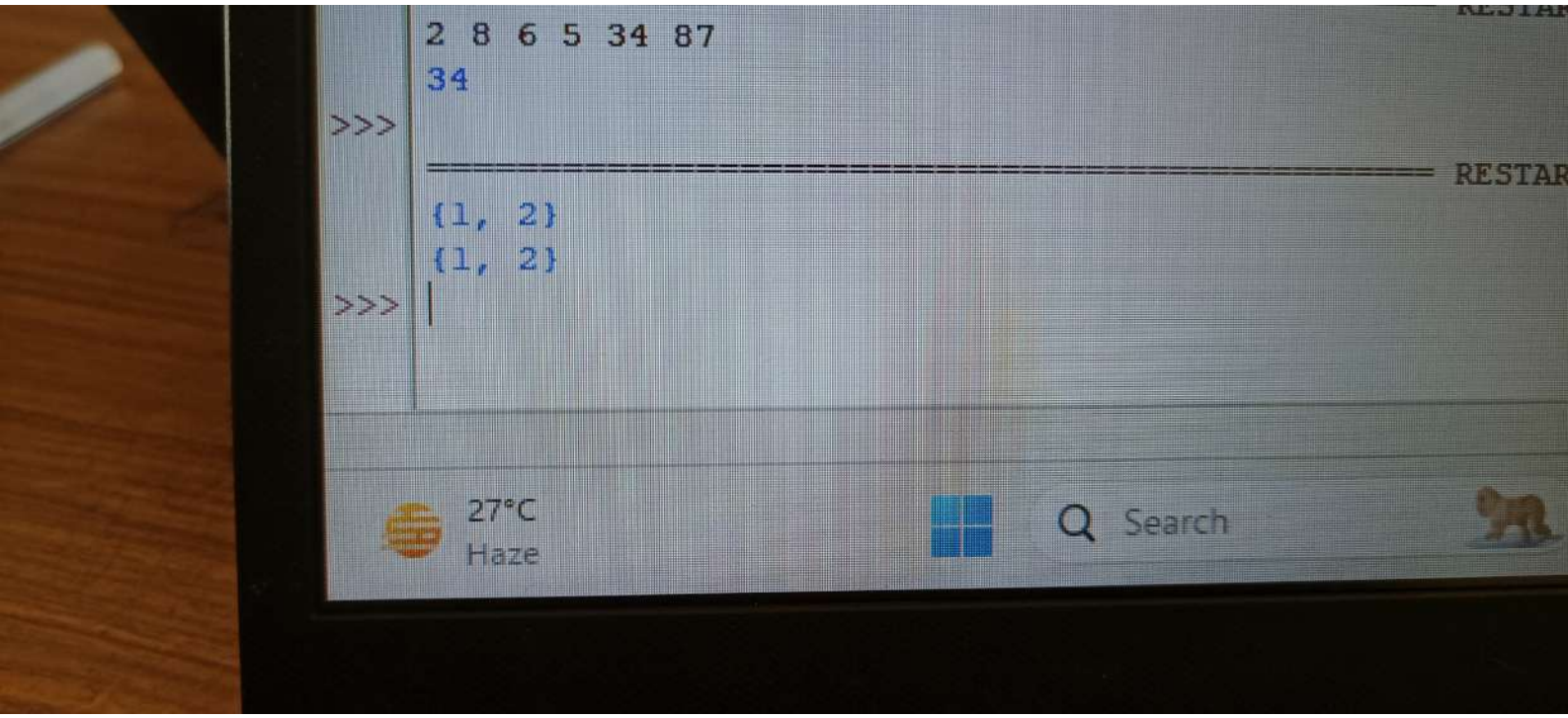

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
num = float(input())
if num > 0:
print("The number is positive.")
elif num < 0:
print("The number is negative.")
else:
print("The number is zero.")

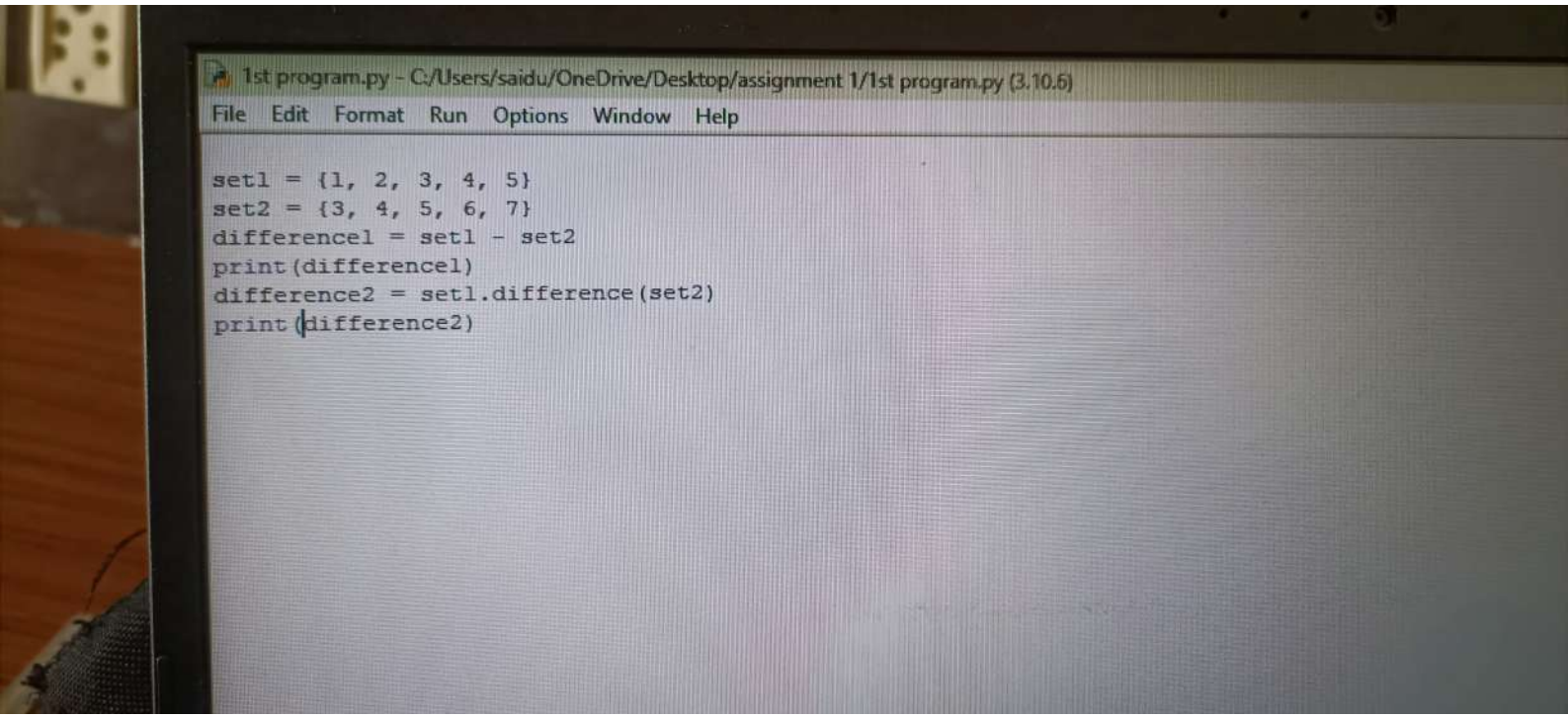

>>>
RESTART: C:/
76
>>>
RESTART: C:/
5
120
>>>
27°C
Haze
Search

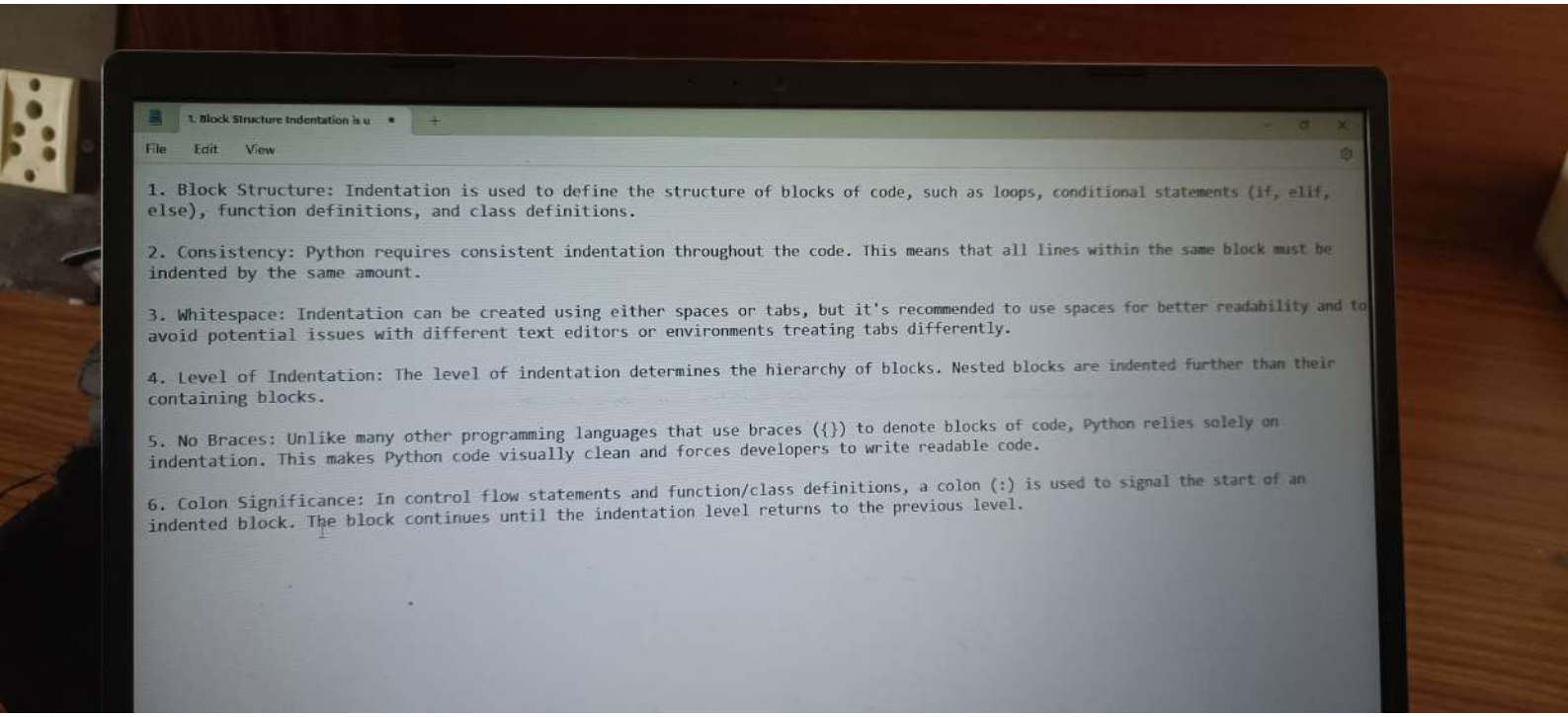

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
num = int(input())
factorial = 1
current_number = 1
while current_number <= num:
factorial *= current_number
current_number += 1
print(factorial)

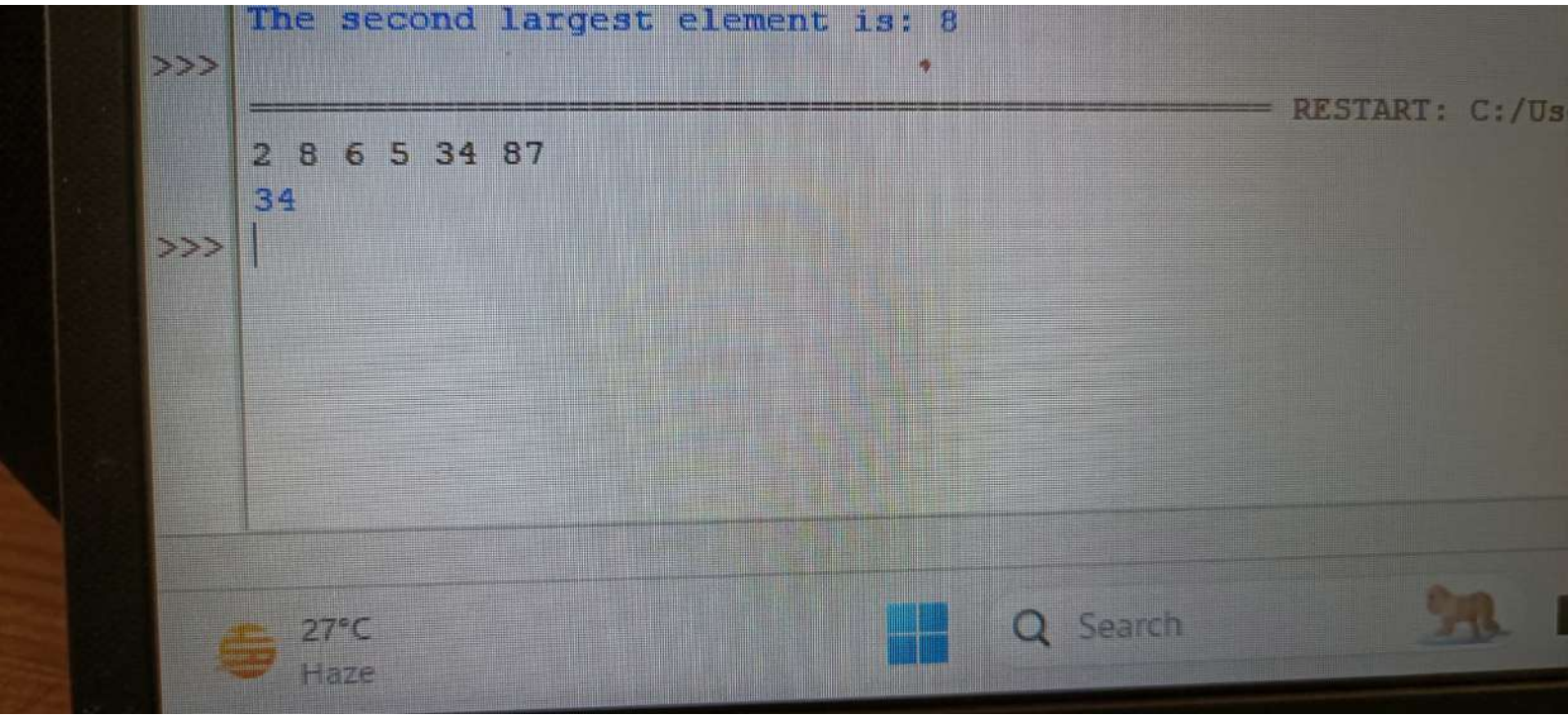

The second largest element is:
>>>
2 8 6 5 34 87
34
>>>
{1, 2}
{1, 2}
>>>
1
2
3
4
5
6
7
8
9
10
>>>
27°C
Haze
esc
f1
f2
f3

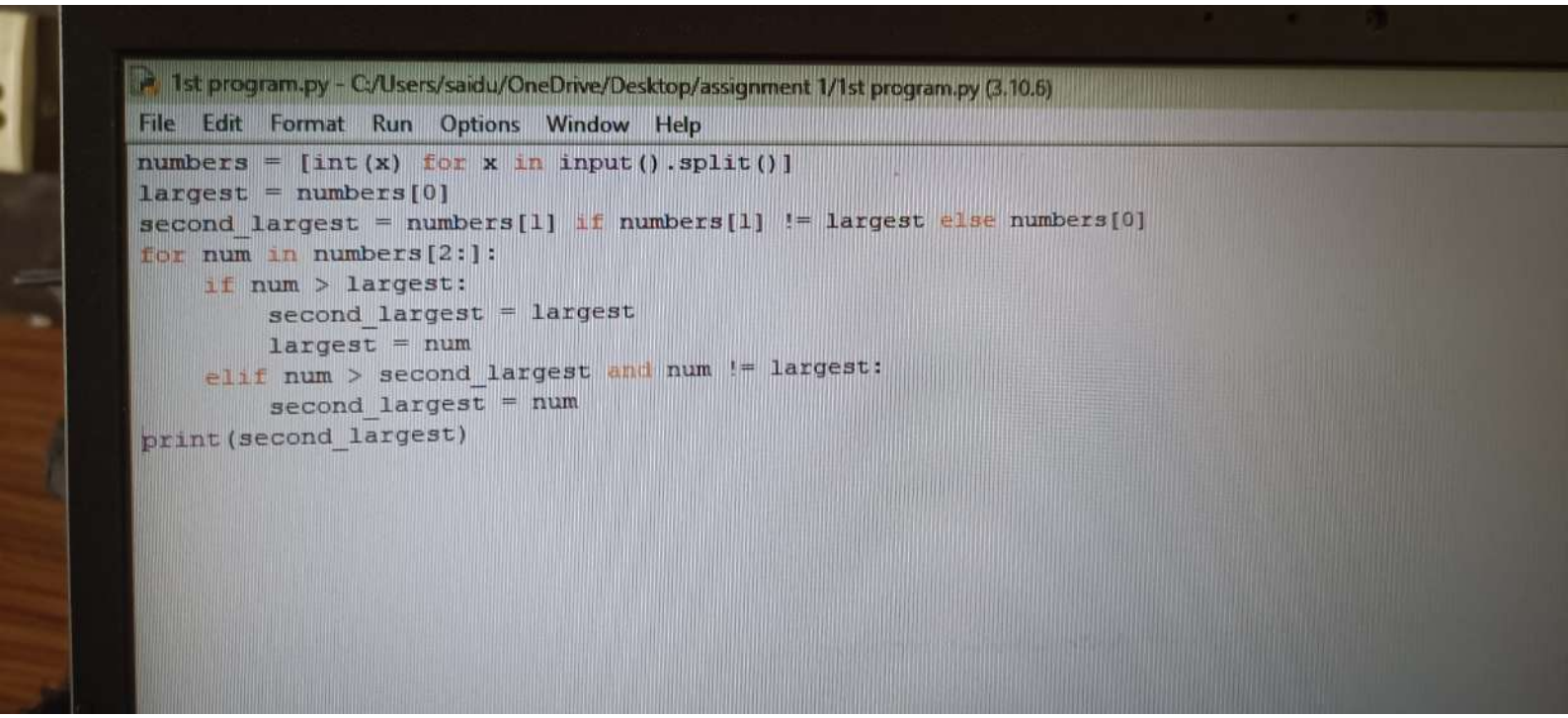

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
num = 1
while num <= 10:
print(num)
num += 1


2 8 6 5 34 87
34
>>>
{1, 2}
{1, 2}
>>>
27°C
Haze
Search

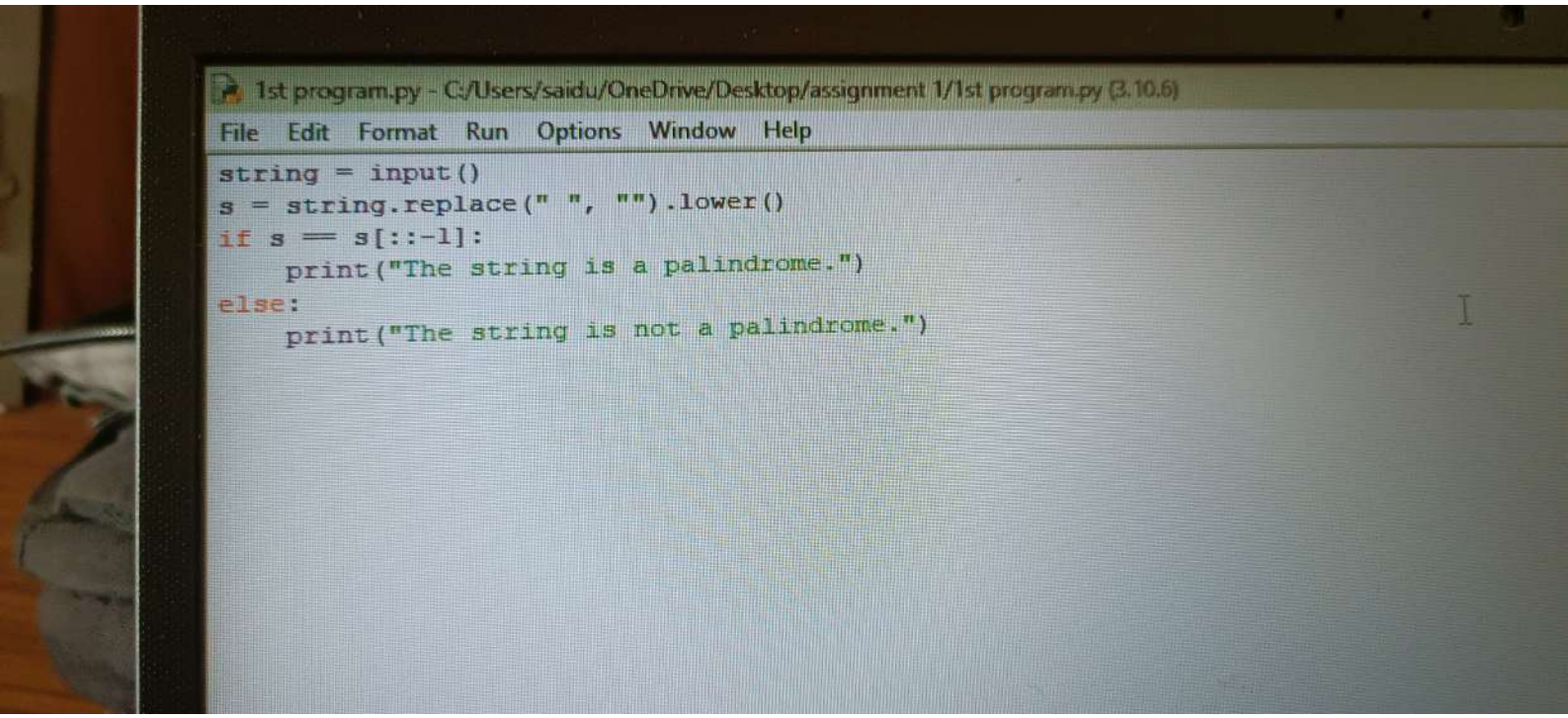

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
set1 = {1, 2, 3, 4, 5}
set2 = {3, 4, 5, 6, 7}
difference1 = set1 - set2
print(difference1)
difference2 = set1.difference(set2)
print(difference2)

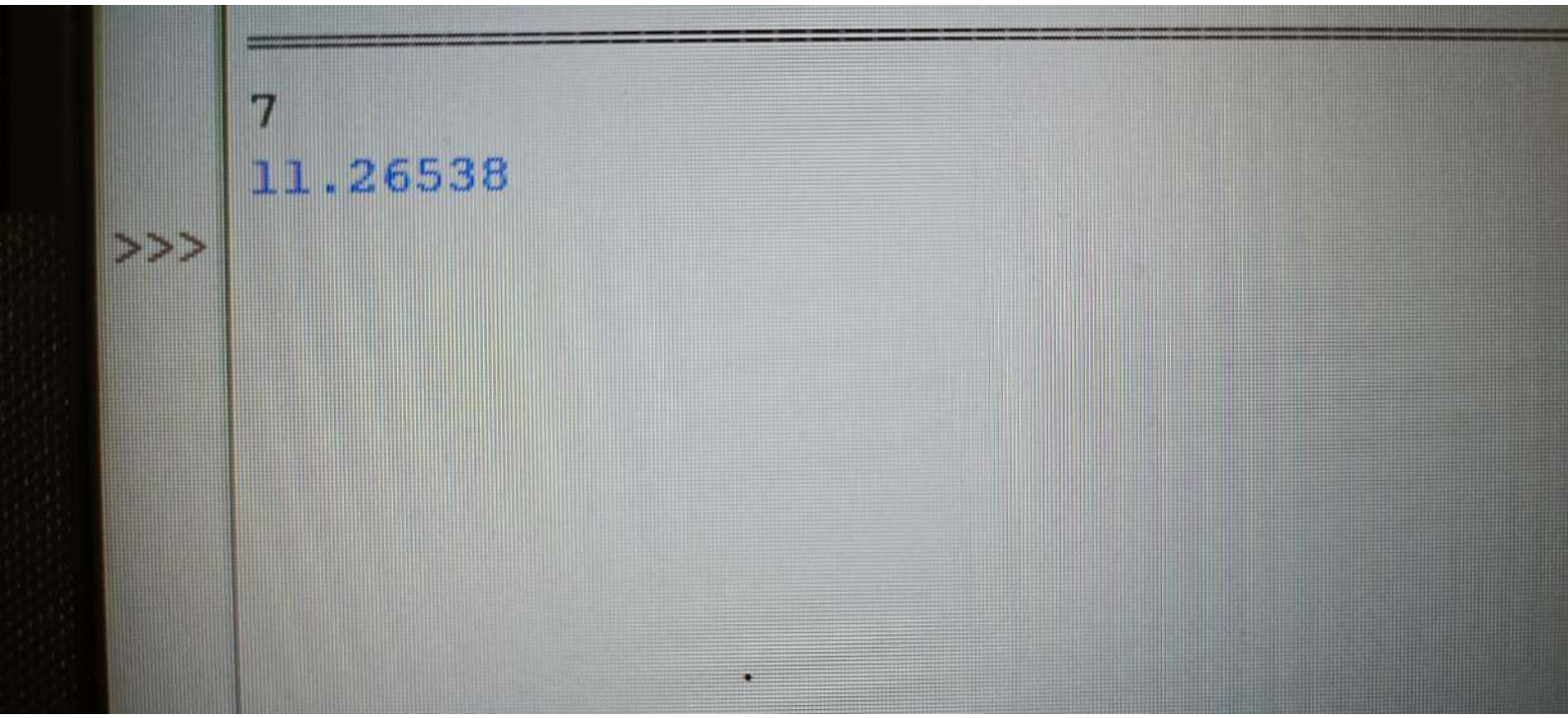

1. Block Structure Indentation is u
File Edit View
1. Block Structure: Indentation is used to define the structure of blocks of code, such as loops, conditional statements (if, elif, else), function definitions, and class definitions.
2. Consistency: Python requires consistent indentation throughout the code. This means that all lines within the same block must be indented by the same amount.
3. Whitespace: Indentation can be created using either spaces or tabs, but it's recommended to use spaces for better readability and to avoid potential issues with different text editors or environments treating tabs differently.
4. Level of Indentation: The level of indentation determines the hierarchy of blocks. Nested blocks are indented further than their containing blocks.
5. No Braces: Unlike many other programming languages that use braces ({}) to denote blocks of code, Python relies solely on indentation. This makes Python code visually clean and forces developers to write readable code.
6. Colon Significance: In control flow statements and function/class definitions, a colon (:) is used to signal the start of an indented block. The block continues until the indentation level returns to the previous level.

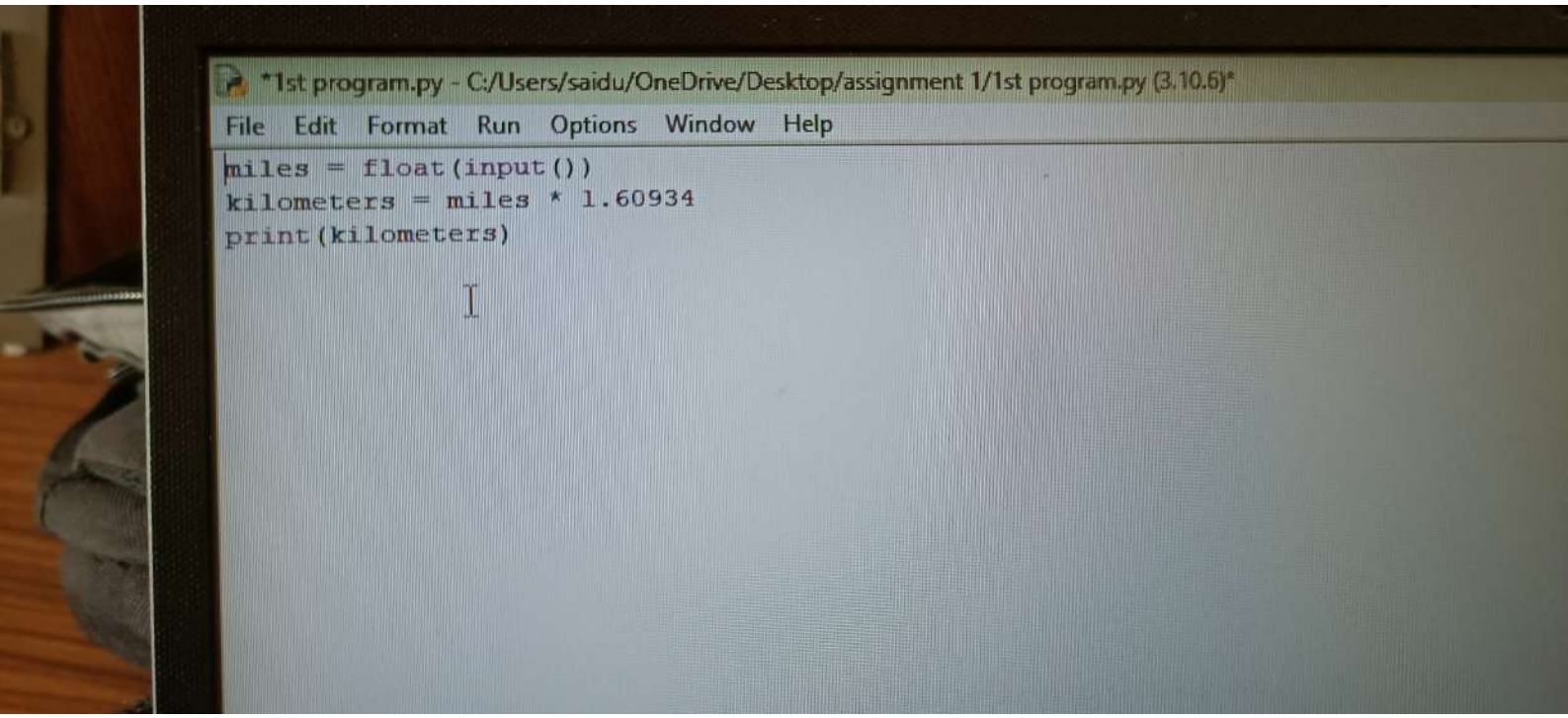

The second largest element is: 8
>>>
RESTART: C:/Us
2 8 6 5 34 87
34
>>>
27°C
Haze
Search

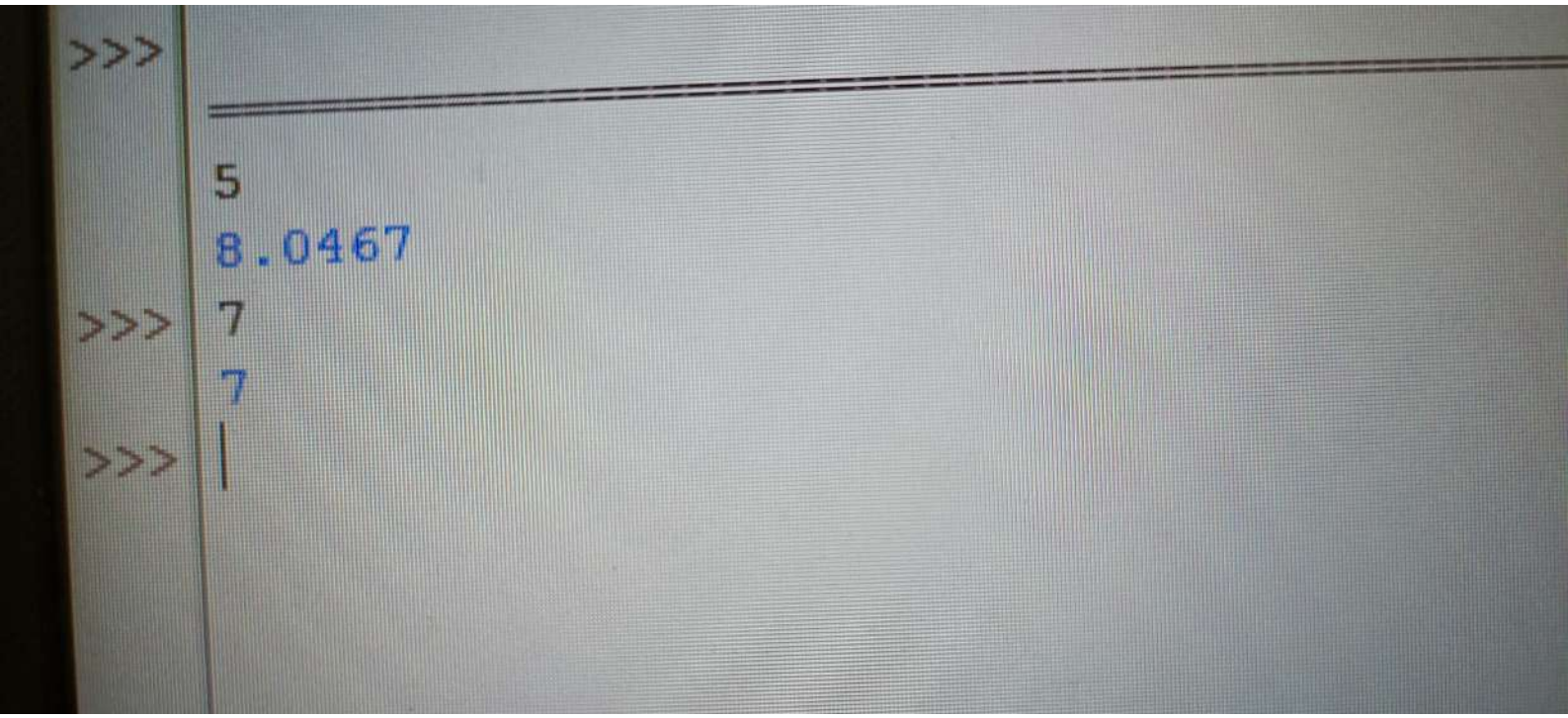

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
numbers = [int(x) for x in input().split()]
largest = numbers[0]
second_largest = numbers[1] if numbers[1] != largest else numbers[0]
for num in numbers[2:]:
if num > largest:
second_largest = largest
largest = num
elif num > second_largest and num != largest:
second_largest = num
print(second_largest)

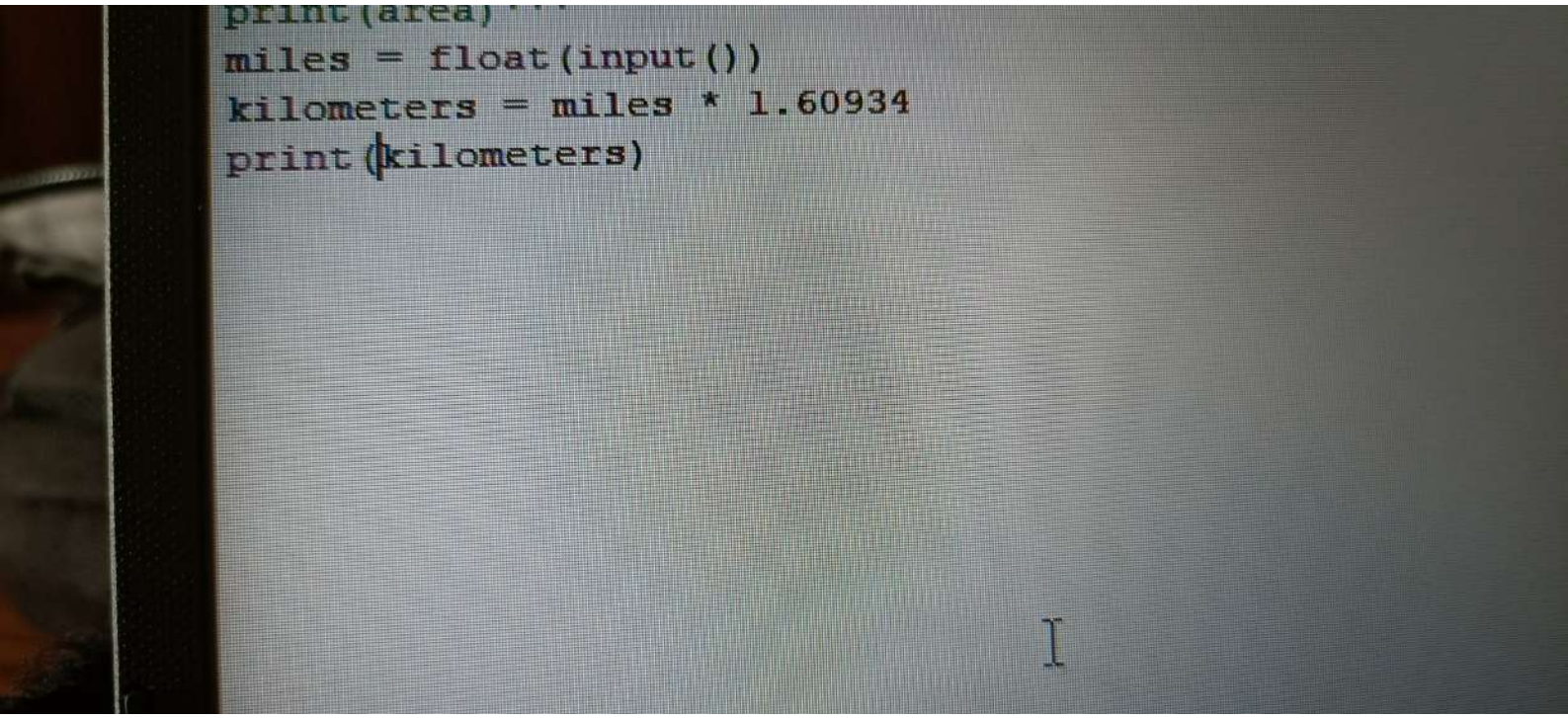
```
>>>
========== RESTART:
37
The string is not a palindrome.
>>>
```

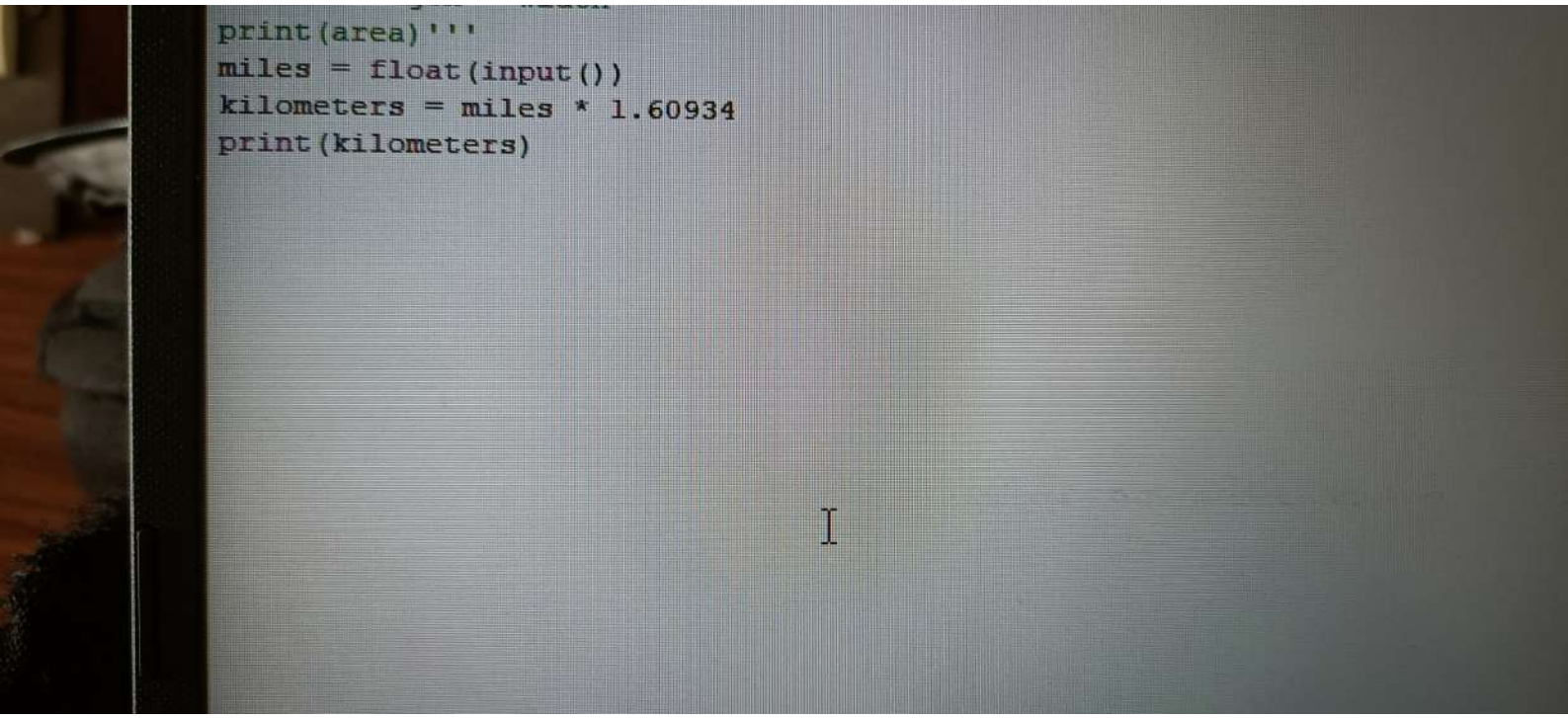

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
string = input()
s = string.replace(" ", "").lower()
if s == s[::-1]:
print("The string is a palindrome.")
else:
print("The string is not a palindrome.")

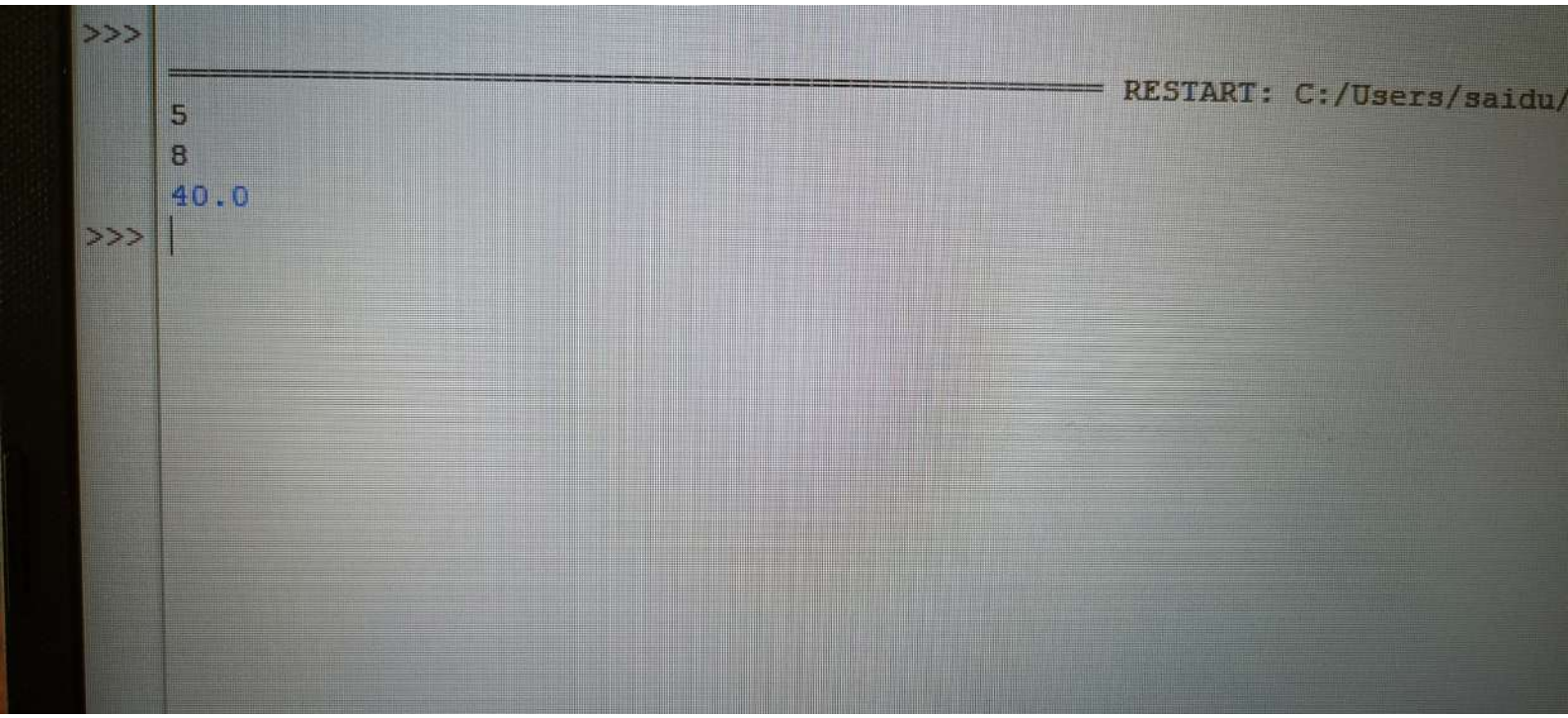

7
11.26538
>>>

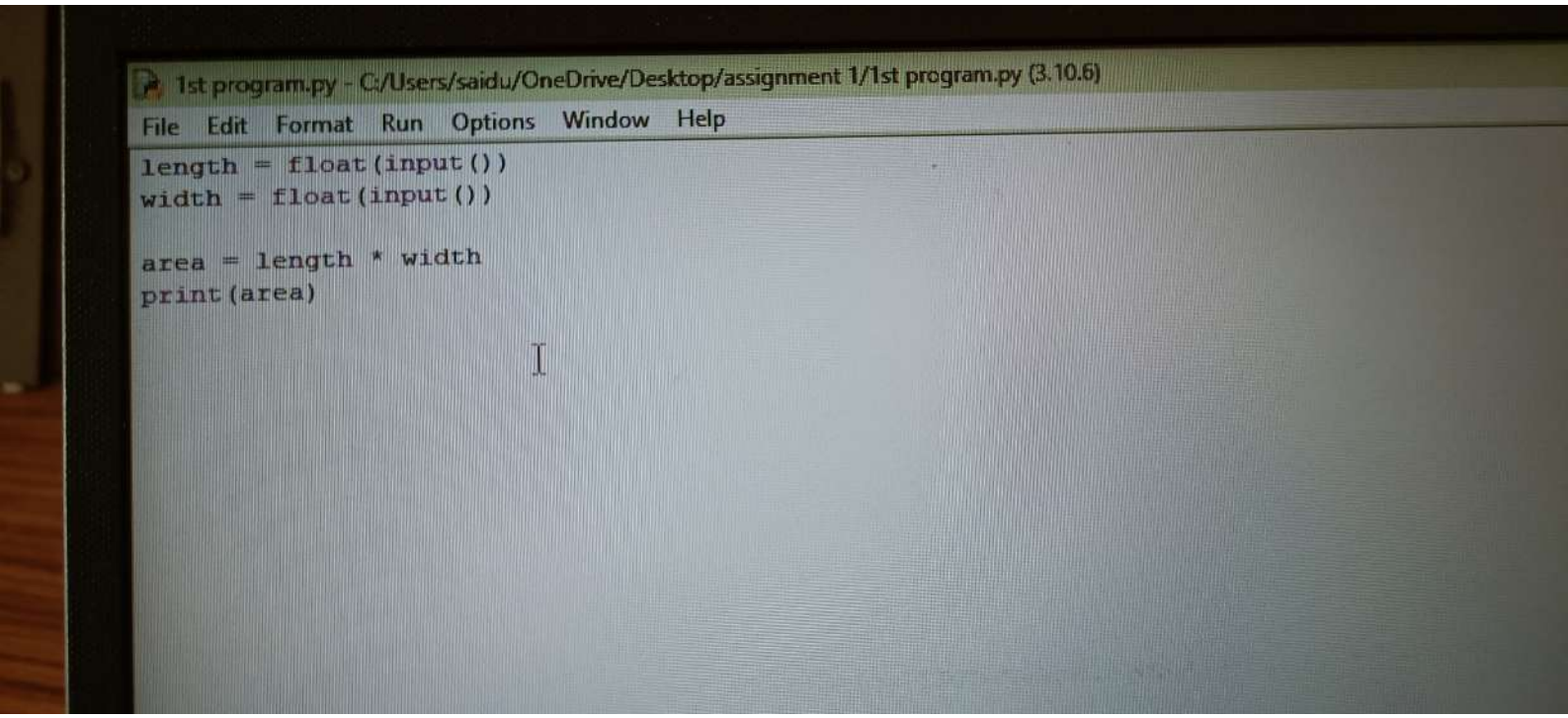

1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
miles = float(input())
kilometers = miles * 1.60934
print(kilometers)


>>>
5
8.0467
>>> 7
7
>>>


print(area)
miles = float(input())
kilometers = miles * 1.60934
print(kilometers)


print(area)'''
miles = float(input())
kilometers = miles * 1.60934
print(kilometers)


>>>
RESTART: C:/Users/saidu/
5
8
40.0
>>>


1st program.py - C:/Users/saidu/OneDrive/Desktop/assignment 1/1st program.py (3.10.6)
File Edit Format Run Options Window Help
length = float(input())
width = float(input())
area = length * width
print(area)