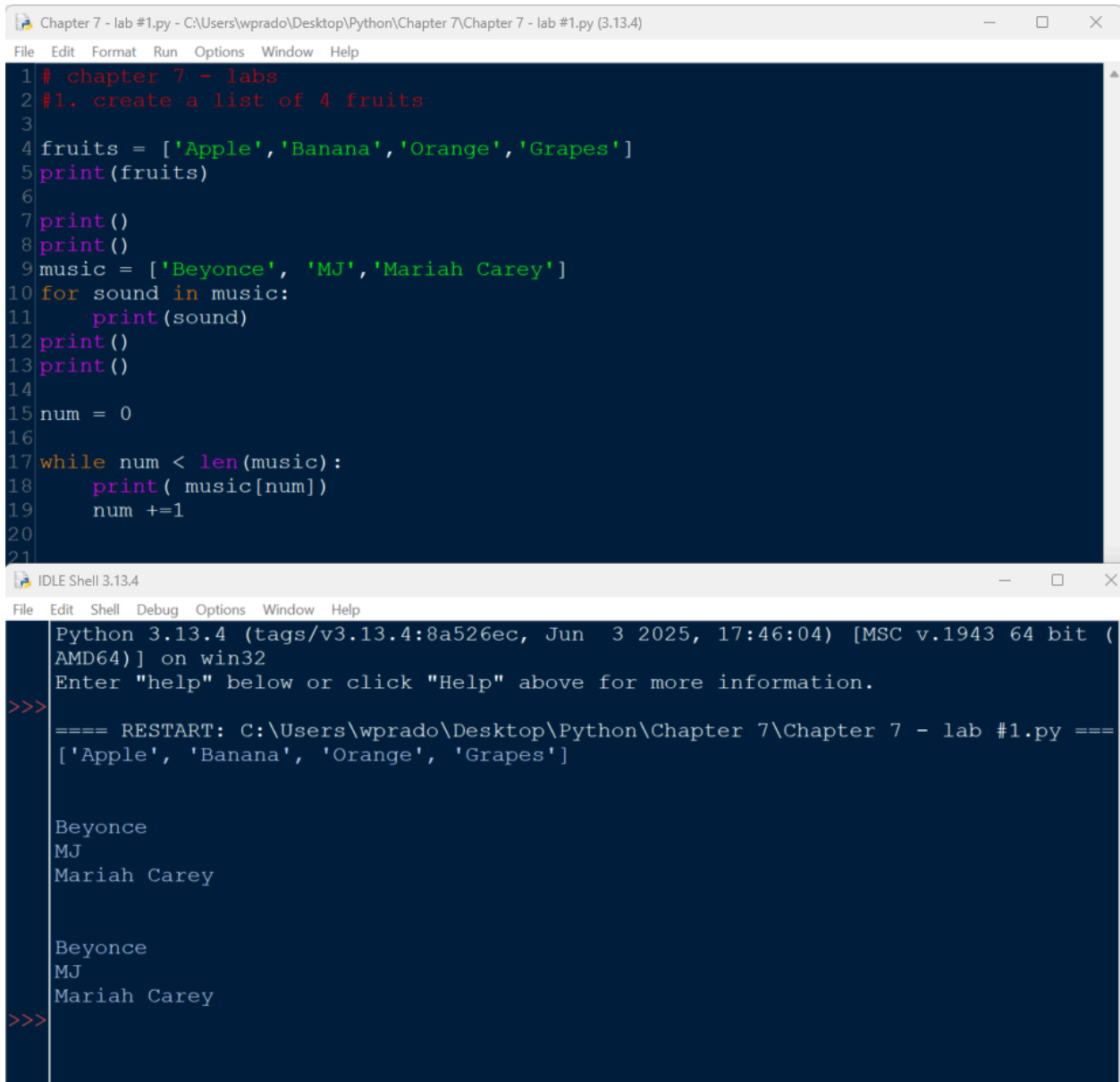Chapter 7 - Labs

#1.Using python, create a list of 4 fruits and store them in the variable **fruits** and display each on the same line. Create another list of your top 3 musicians, store them in a variable called **music** and display each on a separate line using the FOR loop. Use the same music list to display the musicians on separate lines using Indexing and WHILE loop.

```python
# chapter 7 - labs
#1. create a list of 4 fruits

fruits = ['Apple','Banana','Orange','Grapes']
print(fruits)

print()
print()
music = ['Beyonce', 'MJ','Mariah Carey']
for sound in music:
    print(sound)
print()
print()

num = 0

while num < len(music):
    print( music[num])
    num +=1
```
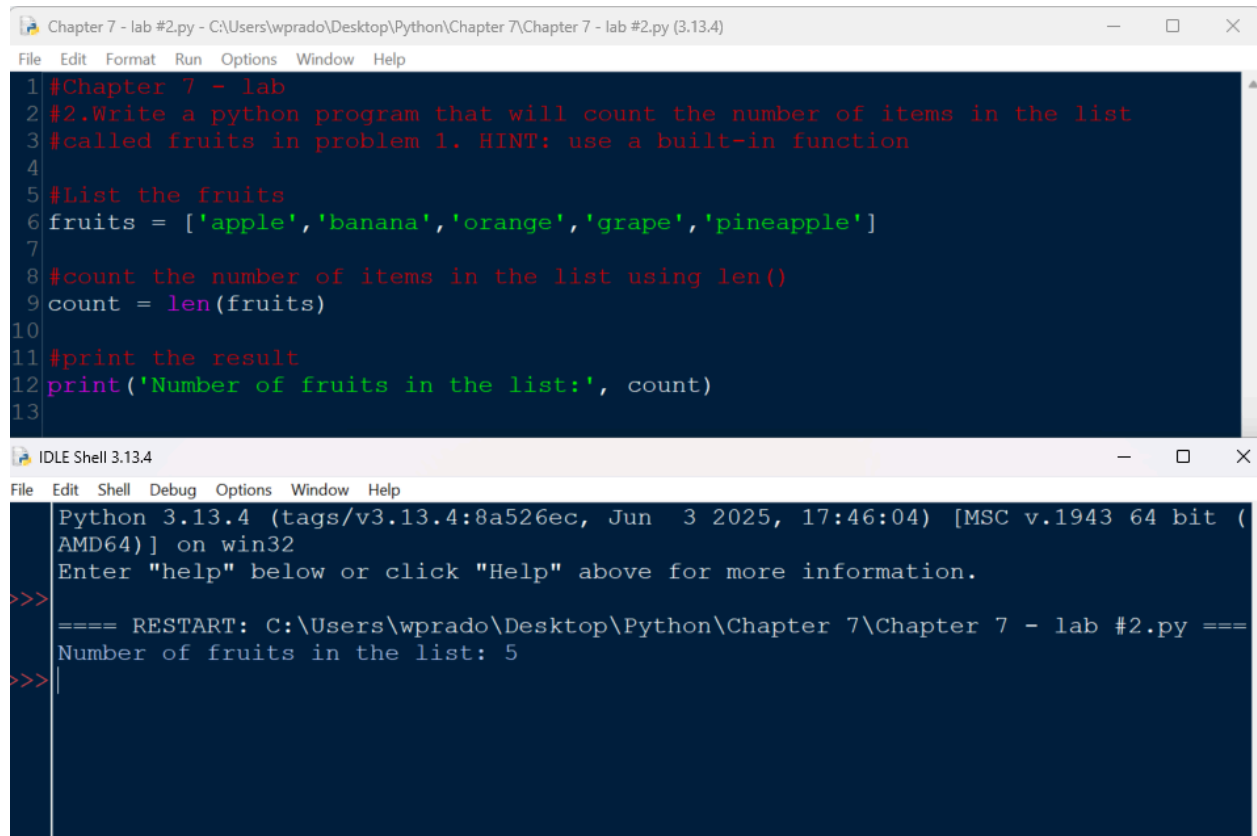
```
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun  3 2025, 17:46:04) [MSC v.1943 64 bit (
AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
==== RESTART: C:\Users\wprado\Desktop\Python\Chapter 7\Chapter 7 - lab #1.py ===
['Apple', 'Banana', 'Orange', 'Grapes']


Beyonce
MJ
Mariah Carey


Beyonce
MJ
Mariah Carey
>>>
```

#2.Write a python program that will count the number of items in the list
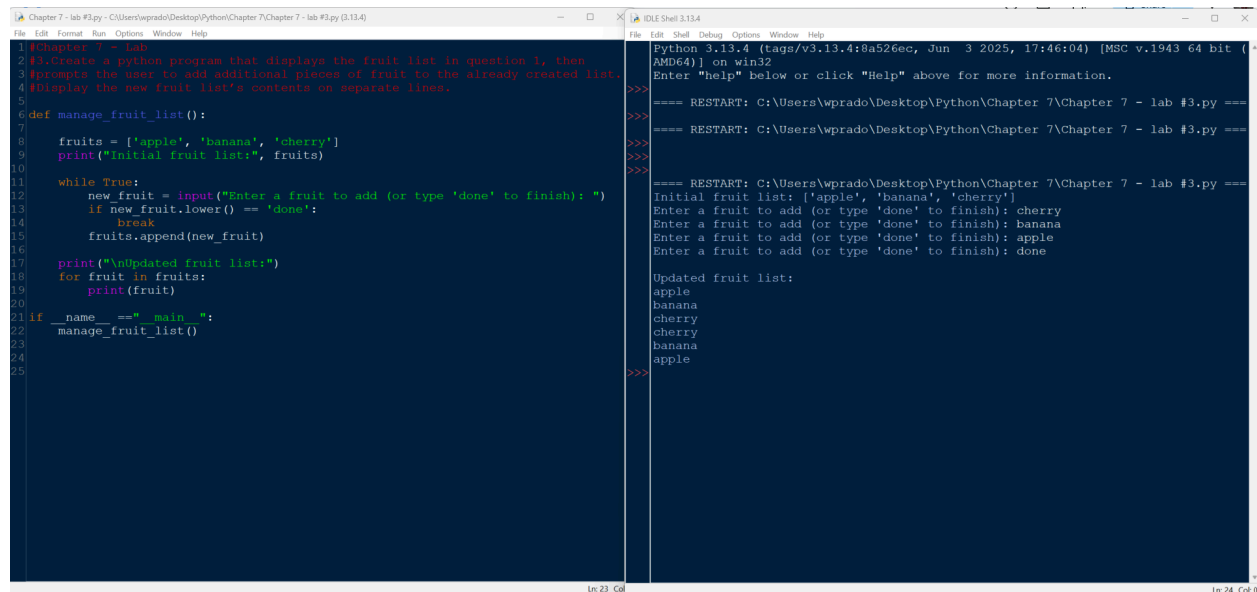called **fruits** in problem 1. **HINT**: use a built-in function

```
Chapter 7 - lab #2.py - C:\Users\wprado\Desktop\Python\Chapter 7\Chapter 7 - lab #2.py (3.13.4)          —    □    X
File  Edit  Format  Run  Options  Window  Help
 1 #Chapter 7 - lab
 2 #2.Write a python program that will count the number of items in the list
 3 #called fruits in problem 1. HINT: use a built-in function
 4
 5 #List the fruits
 6 fruits = ['apple','banana','orange','grape','pineapple']
 7
 8 #count the number of items in the list using len()
 9 count = len(fruits)
10
11 #print the result
12 print('Number of fruits in the list:', count)
13
```

```
IDLE Shell 3.13.4                                                                 —    □    X
File  Edit  Shell  Debug  Options  Window  Help
    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 7\Chapter 7 - lab #2.py ===
    Number of fruits in the list: 5
>>>
```

#3.Create a python program that displays the **fruit** list in question 1, then
prompts the user to add additional pieces of fruit to the already created list.
Display the new fruit list's contents on separate lines.

```
Chapter 7 - lab #3.py - C:\Users\wprado\Desktop\Python\Chapter 7\Chapter 7 - lab #3.py (3.13.4)     —    □    X
File  Edit  Format  Run  Options  Window  Help
 1 #Chapter 7 - Lab
 2 #3.Create a python program that displays the fruit list in question 1, then
 3 #prompts the user to add additional pieces of fruit to the already created list.
 4 #Display the new fruit list's contents on separate lines.
 5
 6 def manage_fruit_list():
 7
 8     fruits = ['apple', 'banana', 'cherry']
 9     print("Initial fruit list:", fruits)
10
11     while True:
12         new_fruit = input("Enter a fruit to add (or type 'done' to finish): ")
13         if new_fruit.lower() == 'done':
14             break
15         fruits.append(new_fruit)
16
17     print("\nUpdated fruit list:")
18     for fruit in fruits:
19         print(fruit)
20
21 if __name__ == "__main__":
22     manage_fruit_list()
23
24
25
```

```
IDLE Shell 3.13.4                                                                 —    □    X
File  Edit  Shell  Debug  Options  Window  Help
    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 7\Chapter 7 - lab #3.py ===
>>>
    ==== RESTART: C:\Users\wprado\Desktop\Python\Chapter 7\Chapter 7 - lab #3.py ===
>>>
>>>
>>>
    ==== RESTART: C:\Users\wprado\Desktop\Python\Chapter 7\Chapter 7 - lab #3.py ===
    Initial fruit list: ['apple', 'banana', 'cherry']
    Enter a fruit to add (or type 'done' to finish): cherry
    Enter a fruit to add (or type 'done' to finish): banana
    Enter a fruit to add (or type 'done' to finish): apple
    Enter a fruit to add (or type 'done' to finish): done
    Updated fruit list:
    apple
    banana
    cherry
    cherry
    banana
    apple
>>>
```

#4.Using a python program join the list (in question 1) called **fruits** with the list called **music** and display the content of the new list using a FOR loop.

#5.Using question 4 code, determine whether the pungent fruit *durian* and the musician *Prince* are contained in the list.