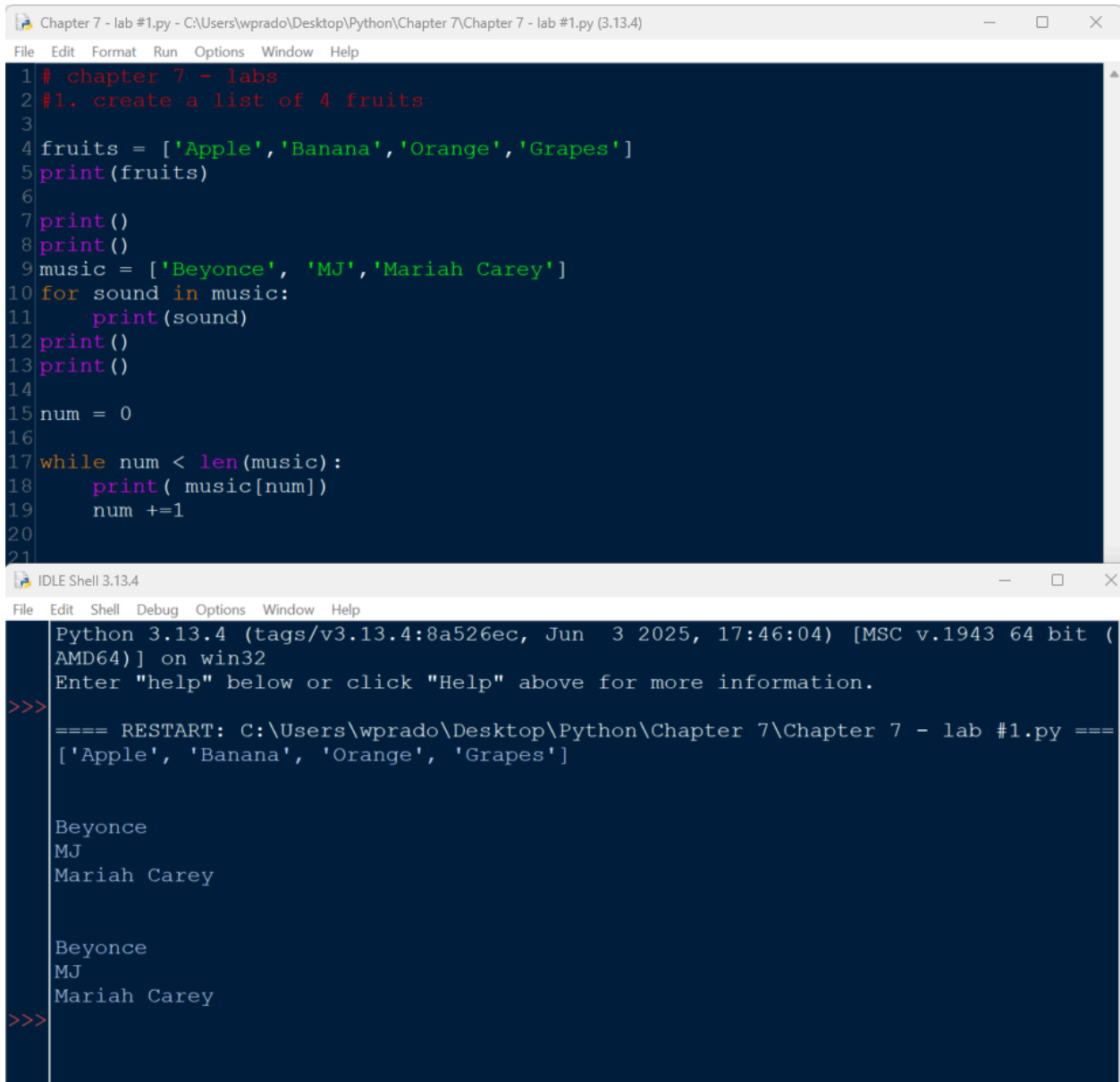


Chapter 7 - Labs

#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.



```
Chapter 7 - lab #1.py - C:\Users\wprado\Desktop\Python\Chapter 7\Chapter 7 - lab #1.py (3.13.4)
File Edit Format Run Options Window Help
1 # chapter 7 - labs
2 #1. create a list of 4 fruits
3
4 fruits = ['Apple', 'Banana', 'Orange', 'Grapes']
5 print(fruits)
6
7 print()
8 print()
9 music = ['Beyonce', 'MJ', 'Mariah Carey']
10 for sound in music:
11     print(sound)
12 print()
13 print()
14
15 num = 0
16
17 while num < len(music):
18     print( music[num])
19     num +=1
20
21

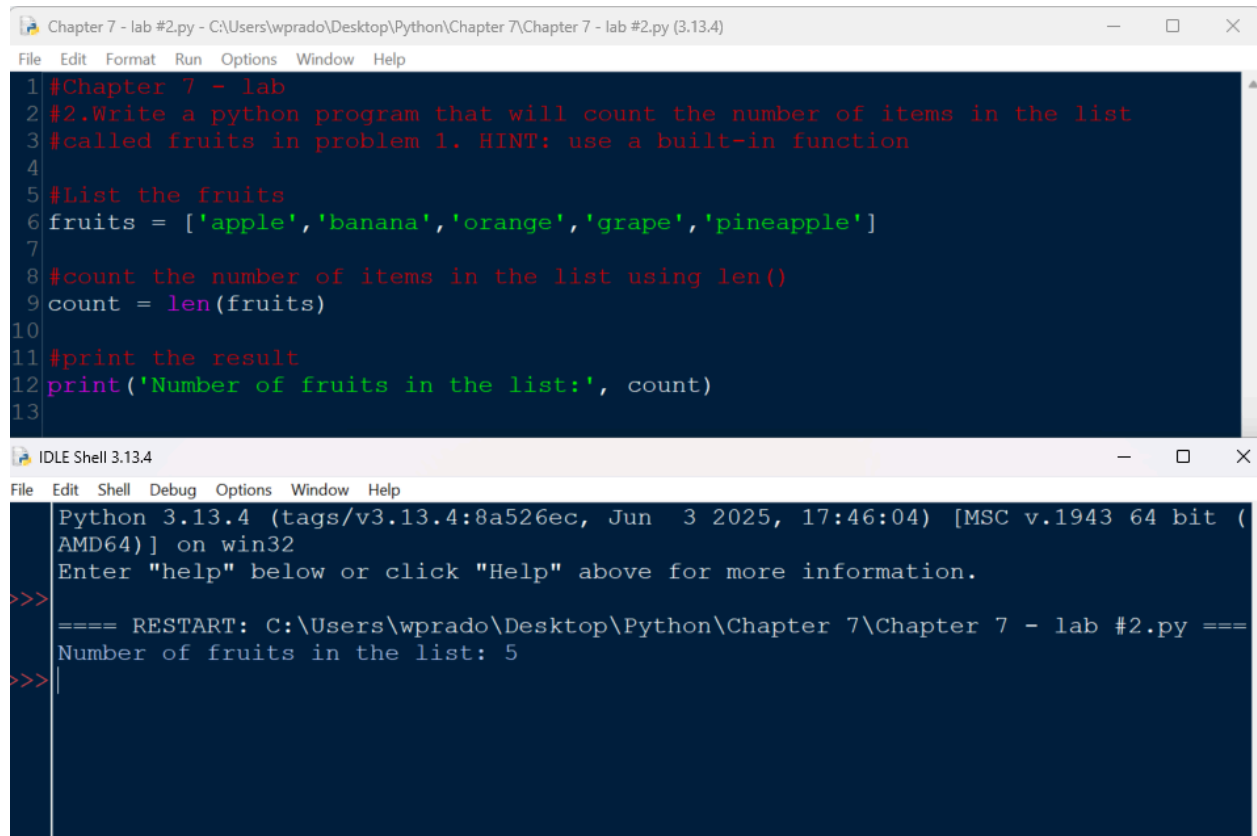
IDLE Shell 3.13.4
File Edit Shell Debug Options Window Help
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun  3 2025, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
==== RESTART: C:\Users\wprado\Desktop\Python\Chapter 7\Chapter 7 - lab #1.py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

Beyonce
MJ
Mariah Carey

Beyonce
MJ
Mariah Carey
>>>
```

Chapter 7 - Labs

#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



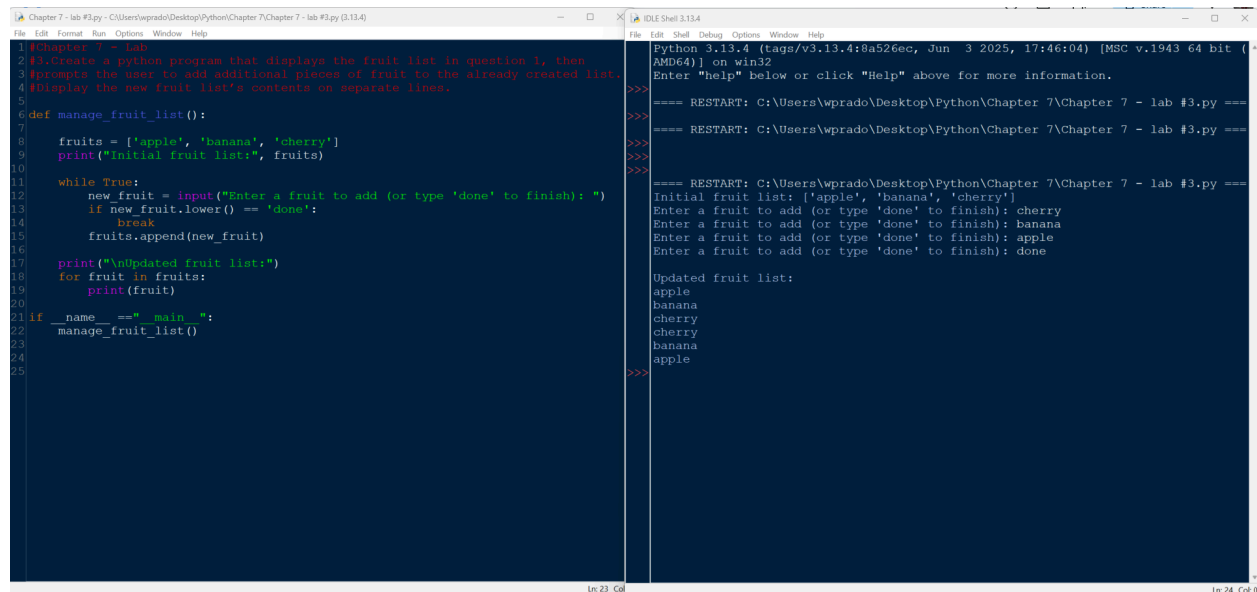
The screenshot shows an IDE with two windows. The top window, titled 'Chapter 7 - lab #2.py', contains the following Python code:

```
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
```

The bottom window, titled 'IDLE Shell 3.13.4', shows the execution output:

```
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.



The screenshot shows an IDE with two windows. The left window, titled 'Chapter 7 - lab #3.py', contains the following Python code:

```
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
```

The right window, titled 'IDLE Shell 3.13.4', shows the execution output:

```
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
>>>
```

Chapter 7 - Labs

#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.

```
Chapter 7 - lab #4.py - C:/Users/wprado/Desktop/Python/Chapter 7/Chapter 7 - lab #4.py (3.13.4)
File Edit Format Run Options Window Help
1 #Chapter 7
2 #4. Using a python program join the list (in question 1) called fruits with the list
3 #called music and display the content of the new list using a FOR loop.
4
5 fruits = ['Strawberry', 'Grape', 'Banana', 'Coconut']
6 music = ['Curren$y', 'Marron5', 'Bruno Mars']
7
8 combined_list = fruits + music
9
10 print("Combined List Contents: ")
11 for groups in combined_list:
12     print(f'{groups}')
13
14 print(f'\nTotal items: {len(combined_list)}')
15
16 search = input('Enter a Fruit or Artist: ')
17 if search in combined_list:
18     print(search, 'is in the list.')
19 else:
20     print(search, 'Not in here!!')
21
22
23
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun 3 2025, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
===== RESTART: C:/Users/wprado/Desktop/Python/Chapter 7/Chapter 7 - lab #4.py =====
Combined List Contents:
Strawberry
Grape
Banana
Coconut
Curren$y
Marron5
Bruno Mars

Total items: 7
Enter a Fruit or Artist: Bruno Mars
Bruno Mars is in the list.
>>>
===== RESTART: C:/Users/wprado/Desktop/Python/Chapter 7/Chapter 7 - lab #4.py =====
Combined List Contents:
Strawberry
Grape
Banana
Coconut
Curren$y
Marron5
Bruno Mars

Total items: 7
Enter a Fruit or Artist: Grape
Grape is in the list.
>>>
```

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

```
Chapter 7 - lab #5.py - C:/Users/wprado/Desktop/Python/Chapter 7/Chapter 7 - lab #5.py (3.13.4)
File Edit Format Run Options Window Help
1 #Chapter 7 - #5 Using question 4 code, determine whether the pungent fruit durian
2 #musician Prince are contained in the list.
3
4
5
6 fruits = ['Strawberry', 'Grape', 'Banana', 'Coconut']
7 music = ['Curren$y', 'Marron5', 'Bruno Mars']
8
9 combined_list = fruits + music
10
11 print("Combined List Contents: ")
12 for item in combined_list:
13     print(item)
14
15 print(f'\nTotal items: {len(combined_list)}')
16
17 to_check = ['Durian', 'Prince']
18
19 for item in to_check:
20     if item in combined_list:
21         print(f'{item} is in the list.')
22     else:
23         print(f'{item} is not in here!!')
24
Python 3.13.4 (tags/v3.13.4:8a526ec, Jun 3 2025, 17:46:04) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
===== RESTART: C:/Users/wprado/Desktop/Python/Chapter 7/Chapter 7 - lab #5.py =====
Combined List Contents:
Strawberry
Grape
Banana
Coconut
Curren$y
Marron5
Bruno Mars

Total items: 7
Durian is not in here!!
Prince is not in here!!
>>>
```