100%

Module 4 Graded Assessment

100%

1. The format_address function separates out parts of the address string into new strings: house_number and street_name, and 1/1 point returns: "house number X on street named Y". The format of the input string is: numeric house number, followed by the street name which may contain numbers, but never by themselves, and could be several words long. For example, "123 Main Street" "1001 1st Ave", or "55 North Center Drive". Fill in the gaps to complete this function.

```
def format_address(address_string):
    # Declare variables
    house_no = ""
    street_no = ""
                     street_no = "Separate the address string into parts sep_addr = address_string.split() # Traverse through the address parts for addr in sep_addr: # Determine if the address part is the if addr.isdigit():
      10
11
                              house_no = addr
                       else:
                     else:

street_no = street_no+addr

street_no = street_no + " "

# house number or part of the street name
                  # Does anything else need to be done
# before returning the result?
                  # Return the formatted string
return "house number {} on street named {}".format(house_no,street_no)
                 print(format_address("123 Main Street"))
# Should print: "house number 123 on street named Main Street"
house number 123 on street named Main Street
house number 1001 on street named 1st Ave
house number 55 on street named North Center Drive
✓ Correct
           Great work! You've remembered how to work with string methods and use variables for formatting output
```

2. The highlight_word function changes the given word in a sentence to its upper-case version. For example, highlight_word("Have a nice day", "nice") returns "Have a NICE day". Can you write this function in just one line? 1/1 point

```
1 > def highlight_word(sentence, word): -
       print(highlight_word("Have a nice day", "nice"))
print(highlight_word("Shhh, don't be so loud!", "loud"))
print(highlight_word("Automating with Python is fun", "fun"))
Have a NICE day
Shhh, don't be so LOUD!
Automating with Python is FUN
✓ Correct
          Nice job! You're mastering your string skills!
```

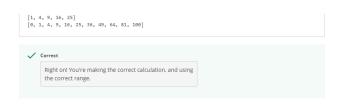
3.A professor with two assistants, Jamie and Drew, wants an attendance list of the students, in the order that they arrived in the classroom. Drew was the first one to note which students arrived, and then lamie took over. After the class, they each entered their lists into the computer and emailed them to the professor, who needs to combine them into one. In the order of each student's arrival. Jamie emailed a follow-up, saying that her list is in reverse order. Complete the steps to combine them into one list as follows: the contents of Drew's list, followed by Jamie's list in reverse order, to get an accurate list of the



```
Jamies_list = ["Alice", "Cindy", "Bobby", "Jan", "Peter"]
Drews_list = ["Mike", "Carol", "Greg", "Marcia"]
['Mike', 'Carol', 'Greg', 'Marcia']
     Excellent! You're using the list functions correctly, and it
```

4. Use a list comprehension to create a list of squared numbers (n*n). The function receives the variables start and end, and returns a list of squares of consecutive numbers between start and end inclusively. For example, squares(2, 3) should return ſ4. 91.

```
def squares(start, end):
    return [(x*x) for x in range(start,end+1)]
           print(squares(2, 3)) # Should be [4, 9]
print(squares(1, 5)) # Should be [1, 4, 9, 16, 25]
print(squares(0, 10)) # Should be [0, 1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
Reset
                                                                                                                                                Run
[4, 9]
```



Complete the code to iterate through the keys and values of the car_prices dictionary, printing out some information
about each one.

Soul costs 19000 dollars

Lamborghini Diablo costs 55000 dollars

Ford Fiesta costs 19000 dollars

Toyota Prius costs 24000 dollars

Toyota Prius costs 24000 dollars

✓ Correct

You got it! You've correctly gone through the items of the dictionary!

6.Taylor and Rory are hosting a party. They sent out invitations, and each one collected responses into dictionaries, with names of their friends and how many guests each friend is bringing. Each dictionary is a partial list, but Rory's list has more current information about the number of guests. Fill in the blanks to combine both dictionaries into one, with each friend listed only once, and the number of guests from Rory's dictionary taking precedence, if a name is included in both dictionaries. Then print the resulting dictionary.

6 | for guest in guests1:
7 | if guest in backup:
8 | guests1[guest] = backup[guest]
9 | return guests1
10
11 Rorys_guests = { "Adam": 2, "Brenda": 3, "David": 1, "Jose": 3, "Charlotte": 2, "Terry": 1, "Robert": 4)
12 Taylors_guests = { "David": 4, "Nancy": 1, "Robert": 2, "Adam": 1, "Samantha": 3, "Chris": 5)
13
14 print(combine_guests(Rorys_guests, Taylors_guests)))
Reset

{'Adam': 2, 'Brenda': 3, 'David': 1, 'Jose': 3, 'Charlotte': 2, 'Terry': 1, 'Robert': 4, 'Nancy': 1, 'Samantha': 3, 'Chris': 5}

Correct
You nailed it! You've figured out the best way to call the update() method, to have the values from the first dictionary added or updated over the second dictionary.

7.Use a dictionary to count the frequency of letters in the input string. Only letters should be counted, not blank spaces, numbers, or punctuation. Upper case should be considered the same as lower case. For example, count_letters("This is a sentence,") should return ("L., "h.h. 1", 2", 2", 3", 4", 1", 4", 3", 1", 2", 2", 1").

1/1 point

8. What do the following commands return when animal = "Hippopotamus"?

1/1 point

```
1 >>> print(animal[3:6])
2 >>> print(animal[-5])
3 >>> print(animal[10:])
4
```

O ppo, t, mus

O ppop, o, s

opp, t, us

opopo, t, mus

✓ Correct

You got it! When both parts of a string index range are included, the substring starts at first index and ends at second index minus 1. When the index is negative, the character is counted from the end of the string. When the second index is omitted, it goes until the end of the string.

