Keep Learning

GRADE 100%

Practice Quiz: Object-oriented Programming (Optional)

TOTAL POINTS 2

TO PASS 80% or higher

1.	object. Let's s Birds also has number). Whi	r knowledge of using dot notation to access methods and attributes in an say we have a class called Birds. Birds has two attributes: color and number. It is a method called count() that counts the number of birds (adds a value to ch of the following lines of code will correctly print the number of birds? Keep in other of birds is 0 until they are counted!	1 / 1 point
	bluejay.number = 0		
	print(blue	ejay.number)	
	print(bluejay.number.count()) bluejay.count()		
	print(bluejay.number)		
	print(bluejay.number)		
		job! We must first call the count() method, which will populate the number oute, allowing us to print number and receive a correct response.	

2. Creating new instances of class objects can be a great way to keep track of values (called attributes, remember? Though attributes do not have to be a value, they can be strings or anything else) associated with the object. This makes it easier to add and subtract from values associated with the objects in a class. The following code illustrates a famous quote by George Bernard Shaw, using objects to represent people. Fill in the blanks to make the code fulfill the behavior described in the quote.

```
# you and I will still each have one apple. But if you have an idea and I have
    # an idea and we exchange these ideas, then each of us will have two ideas."
4
    # George Bernard Shaw
5
6
    class Person:
7
        apples = 0
8
        ideas = 0
9
    johanna = Person()
10
11
    johanna.apples = 1
    johanna.ideas = 1
12
13
14
    martin = Person()
15
    martin.apples = 2
16
    martin.ideas = 1
17
18
    def exchange_apples(you, me):
      #"you" and "me" will exchange ALL our apples with one another
19
20
         x = me.apples
21
         me.apples = you.apples
         you.apples = x
22
23
         return you.apples, me.apples
24
25
    def exchange_ideas(you, me):
26
      #"you" and "me" will share our ideas with one another
27
      you.ideas += me.ideas
28
      me.ideas = you.ideas
29
      return you.ideas, me.ideas
31
    exchange_apples(johanna, martin)
    print("Johanna has {} apples and Martin has {} apples".format(johanna.apples,
      martin.apples))
                                                                                           Run
33
    exchange ideas(johanna, martin)
    print("Johanna has {} ideas and Martin has {} ideas".format(johanna.ideas,
34
      martin.ideas))
                                                                                          Reset
35
Johanna has 2 apples and Martin has 1 apples
```

✓ Correct

Awesome! You're getting used to using instances of class objects and assigning them attributes!

Johanna has 2 ideas and Martin has 2 ideas