Decorators in Python Challenges

#	Question
1.	- Define a python function "multiply" to multiply all list items by 2. - Define a python function "divide" to divide all list items by 2. - Define a Python function "process" that accepts two parameters (a function and a list). Inside the function "process", call the function for the list and return the result. - Use your functions for the following list list1=[12, 13, 14] a. To multiply the list items by 2 b. To divide the list items by 2 **Expected output:** a. [24, 26, 28] b. [6.0, 6.5, 7.0]

#	Question
2.	Define a Python function 'course_details' that takes one parameter 'title' and returns one of the following two functions according to the 'title' value : 'python_beginner' or 'python_advance'. Each one of these functions should print some details about the related course a. course1 = 'Python advance' details: 'In this course we dive deeply in more complex topics using Python' b. course2 = 'Python beginner' details: 'This course gives you Python basics' **Expected output:** a. In this course we dive deeply in more complex topics using Python b. This course gives you Python basics

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#	Question
3.	- Define a python function that calculates the square root of a number 'a' - Define a decorator that improves the previous function by printing the following message 'no sqrt for negative number' when the passed number is less than zero - Test your decorated function for the following two cases: a. -25 b. 25 **Expected output:** a. no sqrt for negative number b. 5

#	Question
4.	- Define a function 'task' that returns the value of 6 - Define two decorators. The first one 'multiply' multiplies the returned value of 'task' by 3, and the second one 'divide' divides the value of 'task' by 2 a. Use each one of the decorators individually b. Use both decorators together taking into account that multiplication should be executed before division **Expected output:** a. 18 3.0 b. 9.0

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