Python Lists — Quiz (Medium)

Subject: Python Lists
Type: Quiz
Difficulty: Medium
Total Questions: 3
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Auto-generated quiz (medium) for Python Lists

Question 1 [1 marks] (medium)

Write a function `append_element(my_list, element)` that takes a list of integers `my_list` and an integer `element`. The function should append `element` to `my_list` and return the modified list. Input: - `my_list`: A list of integers (e.g., `[1, 2, 3]`) - `element`: An integer (e.g., `4`) Output: - A list of integers (e.g., `[1, 2, 3, 4]`) Constraints: - `my_list` will not be empty.

Question 2 [1 marks] (medium)

Write a function `calculate_sum(numbers)` that takes a list of integers `numbers` and returns the sum of all its elements. Input: - `numbers`: A list of integers (e.g., `[10, 20, 30]`) Output: - An integer representing the sum (e.g., `60`) Constraints: - `numbers` will contain at least one integer.

Question 3 [2 marks] (medium)

Write a function `get_even_numbers(numbers)` that takes a list of integers `numbers` and returns a new list containing only the even numbers from the original list. Input: - `numbers`: A list of integers (e.g., `[1, 2, 3, 4, 5, 6]`) Output: - A list of integers containing only even numbers (e.g., `[2, 4, 6]`) Constraints: - The input list `numbers` can be empty.