Question 1: List Manipulation Basics
Given a list my_list = [10, 20, 30, 40, 50, 60]:

- Change the element at index 2 to 35.
- Add 70 to the end of the list.
- Insert 5 at the beginning of the list.
- Remove the element 40 from the list.
- Print the final list.

Question 2: Sum of Even Numbers
Write Python code that iterates through the following list numbers = [12, 7, 23, 48, 15, 66, 9]. Calculate and print the sum of all even numbers in the list.

Question 3: Manual List Reversal
Given a list data = ['apple', 'banana', 'cherry', 'date', 'elderberry'], create a new list that contains the elements of data in reverse order. You are not allowed to use data.reverse() or data[::-1]. You must achieve this using loops and basic list operations.

Question 4: Finding the Maximum Element
Without using the built-in max() function, write code to find and print the largest number in the list values = [8, 2, 10, 5, 17, 3, 14].

Question 5: Count Occurrences
Given the list items = ['red', 'blue', 'green', 'red', 'yellow', 'blue', 'red'], write code to count how many times the string 'red' appears in the list and print the count. Do not use the list.count() method.

Question 6: Remove All Occurrences of an Element
Given a list mixed_numbers = [1, 5, 2, 5, 3, 5, 4, 5], write code to remove all instances of the number 5 from the list. The final list should only contain [1, 2, 3, 4]. You must achieve this by iterating and creating a new list or modifying the existing one carefully.

Question 7: List Palindrome Check
Write code to determine if a given list is a palindrome (reads the same forwards and backwards). Print "Palindrome" if it is, and "Not a Palindrome" otherwise.

Test with:

- list1 = [1, 2, 3, 2, 1]
- list2 = ['a', 'b', 'c', 'b', 'd']
  You are not allowed to use [::-1] for comparison.

Question 8: Merge and Sort Two Lists (Manual Sort)
Given two lists:

- list_a = [3, 1, 4]
- list_b = [2, 5, 0]
  Combine these two lists into a single list and then sort the combined list in ascending order without using the list.sort() method or sorted() function. You'll need to implement a basic sorting algorithm (e.g., bubble sort logic) using loops.

Question 9: Flatten a Nested List
You are given a list that contains integers and other lists (only one level of nesting). For example: nested_list = [1, [2, 3], 4, [5, 6, 7], 8].
Write code to create a new flat list containing all the integers from nested_list. The result should be [1, 2, 3, 4, 5, 6, 7, 8].

Question 10: Find Common Elements
Given two lists, list_p = [1, 2, 3, 4, 5] and list_q = [4, 5, 6, 7, 8], write code to find and print all elements that are common to both lists. The order of common elements does not matter. You are not allowed to use set operations.