CP109L 110-1 HW13 assignment

Organize your questions and the solutions (including the source code listing using `Roboto Mono` font, input/output for programming-writing questions) to *all six* questions, into a document of a word processor. Google Doc is recommended, because it allows you and your teammate to co-edit a document. Put the following files (with your student ID numbers as the file name prefix).

    1103790_110379_HW13.pdf,
    1103790_1103799_HW13_q1.py,
    1103790_1103799_HW13_q2.py,
    1103790_1103799_HW13_q3.py,
    1103790_1103799_HW13_q4.py,
    1103790_1103799_HW13_q5.py,
    1103790_1103799_HW13_q6.py

into a folder named as 1103790_1103799_HW13, compress this folder into 1103790_1103799_HW13.zip, and then upload this file to portal's homework section

1. Ask the user for an integer N counting how many people's names to be entered. Next, ask the user to enter those names (full names, for example, "Diana Prince") one by one for N times. Store these names with a list. Sort the names (according to the first names). Then, print the letters to these people, according to the sorted order, with the 1st, 3rd, … people assigned to the interview time slot of 2022/01/10 9:30, whereas the 2nd, 4th, … people assigned to the interview time slot of 2022/01/11 15:30. The letters are separated by the division line "–--"

    The letter template should be stored in the program using a multiple-line string. The template is like the following:

    Dear Xxxx Xxxxx Applicant,

    Thank you for applying for the position of engineer with YZ Company. We are impressed with your expertise in microcontroller programming.

    We would like to invite you to come to our office to interview for the position. Your interview has been scheduled for yyyy/mm/dd hh:mm, at Room 3205, Building 3, 135 Yuan-dong Road, Zhong-Li District, Tao-Yuan City.

    Please call me at 03-463-8800 or email me at johnsmith@yz.com.tw if you have any questions or need to reschedule.

    Sincerely,
    John Smith
    Regional Manager
    YZ Company

2. Ch7 #24(b) (p.414). Print the content of the list. For example, the input sentence is "This is a book." Note that no punctuation marks attach words. The output is
['This', 'is', 'a', 'book']

3. (based on question 2) Instead of printing the raw content of the list, the total count and the indexed entries are printed (see the example below). Ask the user for the index of the entry to be deleted. Then, the processed list is re-assembled back to a sentence and get printed. The following is an example:
The list has 4 elements:
0: This
1: is
2: a
3: book

Which one to be deleted? 2
Result: This is book

4. (based on question 3) The action is changed from deletion to insertion. The following is an example:
The list has 4 elements:
0: This
1: is
2: a
3: book

Which one to insert? 2
What word to insert? not
Result: This is not a book

5. Ch7 #36 (p.415)

6. Ch7 #47 (p.417)