Basic python. String and list operations

1) Write a program which accepts a name from a user and prints the same name with all letters capitalized.

2) Write a program that recognizes palindromes (i.e. words that look the same written backwards). For example, is_palindrome("radar") should return True.

3) append, sort, etc. are list methods that operate on a list. List methods are void, they operate on the list and returns none. Try to understand this by using the sort method.

4) Write a program to check if a list is sorted or not. It should return a 'True' or 'False'

5) Create a program which defines a list [1,2,3,4,5]. Next, let it accept a number from the user *(you can try using the "raw_input" function)* and check if it is inside the list. Depending on the result, the output should be *"Yes, found it!"* or "Sorry, could not find that." You may want to use the "in" keyword for this exercise. Try typing "a" in "Jack" and see the output. This should help you understand what the "in" keyword does.

6) Read a sentence from user and split them to words and print one word in a line.

7) On your own, and by searching, find as many ways to get cumulative sum of a list. ie., an element c_i in the new list should be $c_i = \Sigma j=0,i \; l_j$

Example. l=[1,2,3] should give c=[1,3,6]