Assignment-3

Problem 1. Write a Python program to check if each number is prime in a given list of numbers. Return True if all numbers are prime otherwise False.
Sample Data:
([0, 3, 4, 7, 9]) -> False
([3, 5, 7, 13]) -> True
([1, 5, 3]) -> False

Problem 2. Write a Python program to get a list, sorted in increasing order by the last element in each tuple from a given list of non-empty tuples.
Sample List : [(2, 5), (1, 2), (4, 4), (2, 3), (2, 1)]
Expected Result : [(2, 1), (1, 2), (2, 3), (4, 4), (2, 5)]

Problem 3 Write a Python program to count the number of strings from a given list of strings. The string length is 2 or more and the first and last characters are the same.
Sample List : ['abc', 'xyz', 'aba', '1221']

Problem 4. Write a program that accept a sentence and build dictionary with LETTERS, DIGITS, UPPERCASE and LOWERCASE as key and their count in the sentences as values. Example :- Sentence=" DTU@123e-Learning"
d={"LETTERS":12,"DIGITS":3,UPPERCASE:4,LOWERCASE:8}

Problem 5. Write a program to check validity of a password read by user. The following criteria should be used to check the validity. Password should have at least :-
i) one lower case   ii) one digit   iii) one upper case
iv) one special character from[$,#,@]   v) Six Characters   vi) Minimum Length of password : 8