

## P10 (E9 Group)

Two words are called anagrams if they consist of the same letters at the same frequency. That is, one word can be formed by reordering the letters of the other word.

**Examples:** triangle - integral, listen - silent, rat - tar

Develop a Python program to find if a given pair of words are anagrams. The input will be a file containing a pair of words on each line. For each line in input file, the output should be "Anagram" if the two words are anagrams and "Not Anagram" if the two words are not anagrams. The output should be displayed on screen and also written to a file "Output.txt".

**Special requirement:** You must define at least 2 functions and use them in your code

### Format:

Input: name of the input file (the input file contains a pair of words on each line separated by a space)

Output: Display on screen and write to the output file named "Output.txt" the word "Anagram" if the two corresponding words are anagrams and "Not Anagram" otherwise. Each answer should be in a separated line.

### Case 1

input: test\_data1.txt  
Contents: triangle integral  
rat tar

Output: Output.txt and on screen  
Contents: Anagram  
Anagram

### Case 2

input: test\_data2.txt  
Contents: listen silent  
test rest

Output: Output.txt and on screen  
Contents: Anagram  
Not Anagram