**PINNACLE 2022 TRAINING**

**DATA STRUCTURES**

**ASSIGNMENT-1**

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1.Write an algorithm or develop a code to solve anagram problem.

**PROGRAM (PYTHON):**

**NOTE:** Can only check and print single word anagrams.

*# Package for list of english words*

from english\_words import english\_words\_lower\_alpha\_set

from itertools import permutations

*# Getting input from user*

s = input("Enter the string: ")

*# Finding all possible permutations of the given word*

permutation = [''.join(p) for p in permutations(s)]

for p in permutation:

if (p in english\_words\_lower\_alpha\_set):

if (p == s):

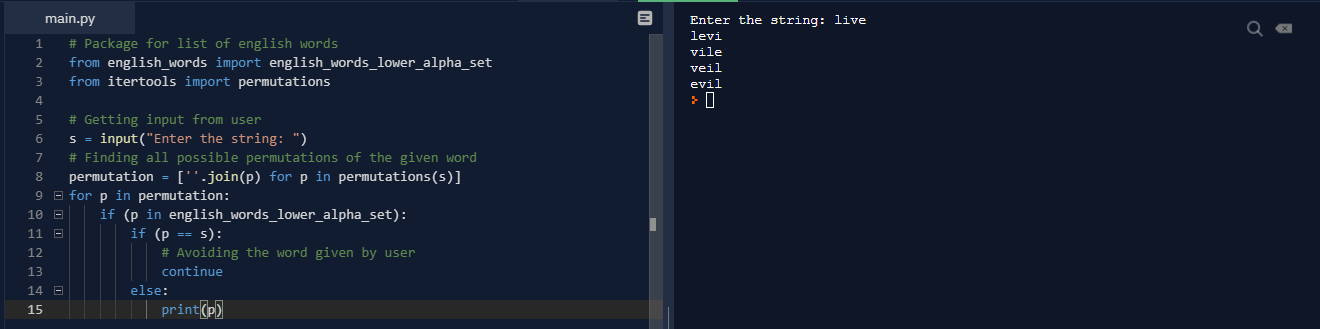
*# Avoiding the word given by user*

continue

else:

print(p)

**OUTPUT:**

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