Velocity Corporate Training Center, Pune

Python Programming Questions(Dict, Function)

Write Python programs using Functions:

1. Print anagrams together in python using a list and dictionary.

   Input : arr = ['cat', 'dog', 'tac', 'god', 'act']

   Output : 'cat tac act dog god'

2. Python counter to find the size of the largest subset of anagram words.

   Input ::> "qwe ewq rty ytr ytr ytr"

   Output ::> 4

   Input :: > "cars bikes arcs steer"

   Output :: > 2

3. Python dictionary, set and counter to check if frequencies can become the same.

   Input : str = "xyyz"

   Output : Yes

   We can remove character 'y' from above string to make the frequency of each character   same.

   Input : str = "xxxxyyzz"

   Output : No

   It is not possible to make the frequency of each character the same just by removing at most one character from the above string.

4. Python program for number of elements with odd factors in a given range

   Input : n = 5, m = 100

   Output : 8

   The numbers with odd factors are 9, 16, 25, 36, 49, 64, 81 and 100

   Input : n = 8, m = 65

   Output : 6

5. python program to find the minimum sum of factors of a number.

   Input : 12

   Output : 7

   Explanation:

   Following are different ways to factorize 12 and sum of factors in different ways.

   12 = 12 * 1 = 12 + 1 = 13

   12 = 2 * 6 = 2 + 6 = 8

   12 = 3 * 4 = 3 + 4 = 7

   12 = 2 * 2 * 3 = 2 + 2 + 3 = 7

   Therefore minimum sum is 7