

**Faculty of Technology and Engineering**

**U & P U. Patel Department of Computer Engineering**

Date: 11 / 02 / 2022

**Practical List**

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| --- | --- | --- | --- | --- | --- |
| Academic Year | : | 2021-22 | Semester | : | 4 |
| Course code | : | CE259 | Course name | : | Programming in Python |

**AIM:You are given n words. Some words may repeat. For each word, output its number of occurrences. The output order should correspond with the input order of appearance of the word. See the sample input/output for clarification.**

**Note: Each input line ends with a "\n" character.**

**Constraints :**

**1 <= n <= 10^5**

**The sum of the lengths of all the words do not exceed 10^6**

**All the words are composed of lowercase English letters only.**

**Input Format :**

**The first line contains the integer, n.**

**The next n lines each contain a word.**

**Output Format :**

**Output 2 lines.**

**On the first line, output the number of distinct words from the input.**

**On the second line, output the number of occurrences for each distinct word according to their appearance in the input.**

**CODE:**

*#Number of Occurance of Words*

a = int(input())

dict = {}

*for* i *in* range(a):

    str = input()

*if* str in dict:

        dict[str] +=1

*else*:

        dict[str] = 1

print(len(dict))

*for* i *in* dict.values():

    print(i ,end=' ')

**GitHub link:**

[**https://github.com/PadmanabhKhunt/pip/blob/master/Assignment1/Pra-6.py**](https://github.com/PadmanabhKhunt/pip/blob/master/Assignment1/Pra-6.py)