def f(s):

    r = {}

    for i in s:

        if i in r:

            r[i] += 1

        else:

            r[i] = 1

    return r

This Is logic for number of each element in an input and return dictionary

**1. Explanation**

1. The function f(s) takes s as input, where s can be a string, list, tuple, or set.
2. First, an empty dictionary r is initialized.
3. The function iterates through each element in ‘s’.
4. It checks if the element ‘i’ is already a key in the dictionary ‘r’

4.1 If the element is present in ‘r’, it increments the count by 1.

4.2 If the element is not present, it sets the count to 1.

1. Finally, the function returns the dictionary ‘r’ with the counts of each element.

**Example**

I passed one string ‘welcome’ it returns {'w': 1, 'e': 2, 'l': 1, 'c': 1, 'o': 1, 'm': 1}

**2. Suggestions for improving the code**

We can use inbuilt function ‘Counter’

from collections import Counter

from typing import Any, Dict

def count\_elements(s: Any) -> Dict[Any, int]:

return Counter(s)

For readability the above top code we can write

Use proper function name, Type Hinting, Proper variable name

**from typing import Any, Dict**

**def count\_occurrences(iterable: Any) -> Dict[Any, int]:**

**element\_count = {}**

**for element in iterable:**

**if element in element\_count:**

**element\_count[element] += 1**

**else:**

**element\_count[element] = 1**

**return element\_count**