EXPERIMENT NO-08

- **Aim** – Program to count the frequency of word appearing in a string using a dictionary.

- **Theory** –

// Program to count the frequency of word appearing in a string using dictionary.

```
def count_word (string):
    word = string.split ()
    word_freq = {}
    for word in words:
        if word in word_freq:
            word_freq [word] + = 1
        else:
            word_freq [word] = 1
    return word_freq
String = "Hello world Hello Python world"
result = count_world (string)
print (result)
```

// Output : {'Hello':2, 'world': 2, 'Python': 1}

- **Explaination** –

i) The count_word function takes a string as input.
ii) It split the string into a word using 'split()' method.

which separates words based on spaces by default.

iii) It create an empty dictionary 'word_freq' to store the word frequencies.

iv) It iterates through each word in the 'word' list.

v) If the word is already in the 'word_freq' dictionary it increment its count by 1.

vi) If the word is not in the dictionary, it adds the word to the dictionary with a count by 1.

vii) Finally it return the 'word_freq' dictionary containing the frequency of each word.

viii) In the example string "Hello world Hello Python world" the word "Hello" appears twice, "world" appears twice, and "Python appear once.

• Conclusion –

i) The conclusion of the program is that it successfully counts the frequency of words appearing in a string using a dictionary.

ii) It provide a way to analyze the occurrence of words in a given string.

iii) It can be useful for tasks like text analysis, word cloud generation, or identifying commonly used words in a document.