LAB 8 : Program to count frequency of words appearing in a string using a dictionary

Program Logic

1. Write a function with string as a parameter
   A. Split the string using `split()` function
   B. Declare a list variable and initialize it to to an empty list
   C. Iterate for loop to find unique word and store it to an empty list
   D. Iterate for loop to merge two list in dictioary
   E. Return the dictionary
2. Write a driver code to take input from user
3. Call the function and print the dictionary

Write the function for counting words

In [16]:

```
def count_word(str):

    str = str.split() # convert string into list

    unique_word = []  # storing unique word in string

    count_list = []   # to store frequency of word

    dict = {}         # to store the {word : frequncy}

    # find unique words from str
    for i in str:
        if i not in unique_word:
            unique_word.append(i)

    # find frequency of word from str
    for j in unique_word:
        counter = str.count(j)
        count_list.append(counter)

    # form a list of these unique words and frequency
    for i in range(len(unique_word)):
        dict[unique_word[i]] = count_list[i]

    return dict
```

Write the driver code and call the function

In [18]:

```
if __name__ == '__main__':
    str = input("Enter the String: ") # Input is "Apple Banana Mango Apple Orange Potat
o Potato Mango Mango"

    print("Dictionary with words and it's frequencdy")
    print(count_word(str))
```

```
Enter the String: Apple Banana Mango Apple Orange Potato Potato Mango Mang
o
Dictionary with words and it's frequencdy
{'Apple': 2, 'Banana': 1, 'Mango': 3, 'Orange': 1, 'Potato': 2}
```

In [ ]: