LAB 5 : Program to count the occurence of each word in a given string sentence.

Program Logic

1. Write a function to count the occurence of each word
   A. Split the string into a list containing the words by using split function (i.e. `string.split()`) in pytrhon with delimiter space.

   > **NOTE** : `string_name.split(seperator)` method is used to split the string by specified seperator(delimiter) into the list. **If the delimiter is not provided then white space is a seperator**

   B. Initialize a new empty list.
   C. Now append the word to the new list from previous string if that word is not present in the new list.
   D. Iterate over the new list and use count funtion

   > **NOTE** : `string_name.count(substring)` **is used to find the number of occurences of substring in a given string**

2. Write `main()` function to call the above function.
3. Call `main()` function.

Declare function to find the occurence of word in string

In [37]:

```python
def count_Words(inputList):
    listA = inputList.split()
    listB = []


    for i in listA:
        if i not in listB:
            listB.append(i)

    for i in listB:
        print("{} is occuring in a sentence for {} time" .format(i, listA.count(i)))

    return listB
```

Driver function

In [42]:

```python
def main():
    fruit_list = "apple mango banana banana pinapple lime lichi apple lichi pineapple a
pple"
    count_Words(fruit_list)
```

Driver function

In [44]:

```python
if __name__ == '__main__':
    main()
```

```
apple is occuring in a sentence for 3 time
mango is occuring in a sentence for 1 time
banana is occuring in a sentence for 2 time
pinapple is occuring in a sentence for 1 time
lime is occuring in a sentence for 1 time
lichi is occuring in a sentence for 2 time
pineapple is occuring in a sentence for 1 time
```

In [ ]: