

## Assignment - 2

**Aim:** Write a python program to count tuples occurrences in given list of tuples and then remove duplicate tuples from list of tuples.

**Code:**

```
def count(listOfTuple):

    flag = False

    # To append Duplicate elements in list
    coll_list = []
    coll_cnt = 0
    for t in listOfTuple:

        # To check if Duplicate exist
        if t in coll_list:
            flag = True

            continue

        else:
            coll_cnt = 0
            for b in listOfTuple:
                if b[0] == t[0] and b[1] == t[1]:
                    coll_cnt = coll_cnt + 1

            # To print count if Duplicate of element exist
            if(coll_cnt > 1):
                print(t, "-", coll_cnt)
            coll_list.append(t)

    if flag == False:
        print("No Duplicates")

def removeDuplicates(listOfTuple):
    return list(set([i for i in listOfTuple]))

listOfTuple = [(1, 5), (6, 9), (1, 8), (6,9), (9,0) , (6,9)]
print(listOfTuple)
```

```
count(listOfTuple)      #Counting the occurance of the tuple
print(removeDuplicates(listOfTuple))  #removing the duplicate
```

## Output:

```
In [19]: runcell(0, 'C:/Users/jkfra/Desktop/Py-Labs/assign2(201903020).py')
[(1, 5), (6, 9), (1, 8), (6, 9), (9, 0), (6, 9)]
(6, 9) - 3
[(1, 5), (6, 9), (9, 0), (1, 8)]

In [20]:
```

**Aim:** Write a python program to create a sub-dictionary containing all keys from dictionary list.

```
# Ensure all keys in dictionary list
# Using set() + chain.from_iterable() + get() + list comprehension
from itertools import chain

# initializing list
test_list = [{'frason' : 1,
              'kevin' : 3},
             {'soundarya' : 4,
              'ishika' : 6,
              'alana' : 5},
             {'adnan' : 8}]

# printing original list
print("The original list is : " + str(test_list))

# extracting all keys
all_keys = set(chain.from_iterable(test_list))

# assigning None using get() if key's value is not found
res = [dict((key, sub.get(key, None)) for key in all_keys) for sub in test_list]

# printing result
print("Reformed dictionaries list : " + str(res))
```

**Output:**

```
In [22]: runcell(0, 'C:/Users/jkfra/Desktop/Py-Labs/assign3.py')
The original list is : [{'frason': 1, 'kevin': 3}, {'soundarya': 4, 'ishika': 6, 'alana': 5},
{'adnan': 8}]
Reformed dictionaries list : [{'adnan': None, 'frason': 1, 'kevin': 3, 'ishika': None, 'alana':
None, 'soundarya': None}, {'adnan': None, 'frason': None, 'kevin': None, 'ishika': 6, 'alana': 5,
'soundarya': 4}, {'adnan': 8, 'frason': None, 'kevin': None, 'ishika': None, 'alana': None,
'soundarya': None}]

In [23]:
```