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## Python Programming - 2101CS405

Lab - 6

## Tuples, dictionary, set

**List Important Set Methods from PPT** 

```
In [ ]:
```

A

01) WAP to sort python dictionary by key or value.

```
In [3]:
    Original dictionary: {3: 'x', 5: 'a', 1: 'z', 4: 'b', 2: 'y'}
    Sorted dictionary by key: {1: 'z', 2: 'y', 3: 'x', 4: 'b', 5: 'a'}
    Sorted dictionary by value: {5: 'a', 4: 'b', 3: 'x', 2: 'y', 1: 'z'}
```

02) WAP to merge two dictionaries given by user.

```
In [5]:

    Original dictionaries:
    {'a': 1, 'b': 2, 'c': 3}
    {'d': 4, 'e': 5, 'f': 6}
    Merged dictionary:
    {'a': 1, 'b': 2, 'c': 3, 'd': 4, 'e': 5, 'f': 6}
```

03) WAP to find tuples that have all elements divisible by K from a list of tuples.

```
In [9]:
    List of Tuple : [(1, 2, 3), (4, 5, 6), (7, 8, 9), (3, 6), (9, 12)]
    Enter K : 3
    [(3, 6), (9, 12)]
```

#### 04) WAP to find Tuples with positive elements in List of tuples.

```
In [12]:

List of Tuple : [(1, 2, 3), (4, 5, 6), (7, 8, 9), (0, -1, -2), (-4, -5, -6), (4, -5, 6)]
Tuples with positive elements in list of tuples:
[(1, 2, 3), (4, 5, 6), (7, 8, 9)]
```

#### 05) WAP which perform union of two sets.

```
Set 1 : {1, 2, 3, 4, 5}

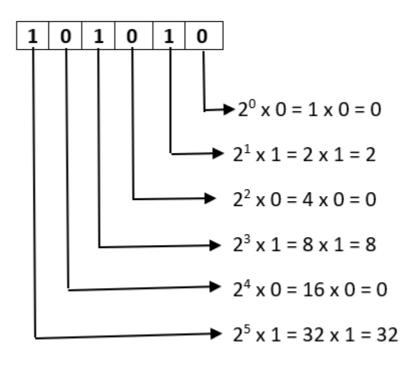
Set 2 : {3, 4, 5, 6, 7}

Union : {1, 2, 3, 4, 5, 6, 7}
```

В

In [13]:

### 01) WAP to convert binary tuple into integer.



Resultant decimal number = 0+2+0+8+0+32 = 42

```
In [15]:
```

Original tuple: (1, 0, 1, 0, 1)

Integer: 21

#### 02) WAP to count frequency in list by dictionary.

```
In [16]:
    Original list : [1, 2, 3, 4, 5, 1, 2, 3, 4, 5]
    Dictionary : {1: 2, 2: 2, 3: 2, 4: 2, 5: 2}
```

# 03) WAP to remove all the duplicate words from the list using dictionary.