

### List Assignment 3

**1. Write a Python program to get the frequency of the elements in a list**

Example:

Input : [10,10,10,10,20,20,20,20,40,40,50,50,30]

Output : Original List : [10, 10, 10, 10, 20, 20, 20, 20, 40, 40, 50, 50, 30]

Frequency of the elements in the List : Counter({ 10: 4, 20: 4, 40: 2, 50: 2, 30: 1})

**2. Write a Python program to check whether a list contains a sublist.**

Example:

Input : a = [2,4,3,5,7]

b = [4,3]

c = [3,7]

Output : True

False

**3. Write a Python program to get variable unique identification number or string.**

Example:

Input : x = 100

Output : 15308cb55d0

1530dad5bf0

**4. Write a Python program to find common items from two lists.**

Example:

Input : color1 = "Red", "Green", "Orange", "White"

color2 = "Black", "Green", "White", "Pink"

Output : {'White', 'Green'}

**5. Write a Python program to convert a list of multiple integers into a single integer.**

Example:

Input : [11, 33, 50]

Output : 113350

**6. Write a Python program to find missing and additional values in two lists.**

Example:

Input : Missing values in second list: b,a,c

Additional values in second list: g,h

Output : Missing values in second list: c,b,a

Additional values in second list: h,g

**7. Write a Python program to convert a pair of values into a sorted unique array.**

Example:

Input : [(1, 2), (3, 4), (1, 2), (5, 6), (7, 8), (1, 2), (3, 4), (3, 4),  
(7, 8), (9, 10)]

Output : [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

**8. Write a Python program to insert an element before each element of a list.**

Example:

Input : ['Red', 'Green', 'Black']

Output : ['c', 'Red', 'c', 'Green', 'c', 'Black']

**9. Write a Python program to sort a list of nested dictionaries.**

Example:

Input : [{ 'key': { 'subkey': 1 } }, { 'key': { 'subkey': 10 } }, { 'key': { 'subkey': 5 } }]

Output : [{ 'key': { 'subkey': 10 } }, { 'key': { 'subkey': 5 } }, { 'key': { 'subkey': 1 } }]

**10. Write a Python program to compute the difference between two lists.**

Example:

Input : ["red", "orange", "green", "blue", "white"], ["black", "yellow", "green", "blue"]

Output : Color1-Color2: ['white', 'orange', 'red']

Color2-Color1: ['black', 'yellow']