1. **Write a Python program to find the item with maximum occurrences in a given list.**

list1=[3,1,2,4,5,1,4,3,2,1,6,3,7,2,3,1,3]

val=0

result=0

for i in list1:

a=list1.count(i)

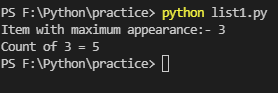
if a>val:

val=a

result=i

result

print('Item with maximum appearance:-',result,'\nCount of',result,'=',list1.count(result))



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

**Sample data: ["red", "orange", "green", "blue", "white"], ["black", "yellow", "green", "blue"]**

**Expected Output:**

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

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

c1=['red','orange','green','blue','white']

c2=["black", "yellow", "green", "blue"]

c3=[]

c4=[]

for i in c1:

if i not in c2:

c3.append(i)

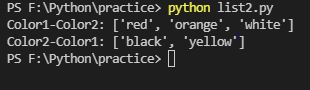
print('Color1-Color2:',c3)

for j in c2:

if j not in c1:

c4.append(j)

print('Color2-Color1:',c4)



1. **Write a Python program to convert list to list of dictionaries.**

**Sample lists: ["Black", "Red", "Maroon", "Yellow"], ["#000000", "#FF0000", "#800000", "#FFFF00"]**

**Expected Output: [{'color\_name': 'Black', 'color\_code': '#000000'}, {'color\_name': 'Red', 'color\_code': '#FF0000'}, {'color\_name': 'Maroon', 'color\_code': '#800000'}, {'color\_name': 'Yellow', 'color\_code': '#FFFF00'}]**

l1=["Black", "Red", "Maroon", "Yellow"]

l2=["#000000", "#FF0000", "#800000", "#FFFF00"]

list1=[]

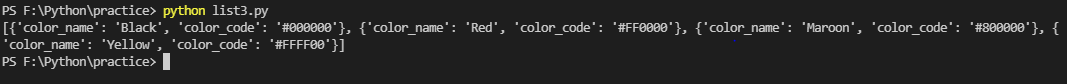
length=len(l1)

for i in range(0,length):

d1={'color\_name':l1[i],'color\_code':l2[i]}

list1.append(d1)

print(list1)



1. **Write a Python program to combine two dictionary adding values for common keys.**

**d1 = {'a': 100, 'b': 200, 'c':300}**

**d2 = {'a': 300, 'b': 200, 'd':400}**

**Sample output: Counter({'a': 400, 'b': 400, 'd': 400, 'c': 300})**

d1 = {'a': 100, 'b': 200, 'c':300}

d2 = {'a': 300, 'b': 200, 'd':400}

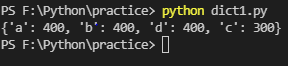
for key in d1:

if key in d2:

d1[key]=d1[key]+d2[key]

res=d2|d1 #Union of two dictionary

print(res)



1. **Write a Python program to print all unique values in a dictionary.**

**Sample Data : [{"V":"S001"}, {"V": "S002"}, {"VI": "S001"}, {"VI": "S005"}, {"VII":"S005"}, {"V":"S009"},{"VIII":"S007"}]**

**Expected Output : Unique Values: {'S005', 'S002', 'S007', 'S001', 'S009'}**

l1=[{"V":"S001"}, {"V": "S002"}, {"VI": "S001"}, {"VI": "S005"}, {"VII":"S005"}, {"V":"S009"},{"VIII":"S007"}]

s1=set()

for i in l1:

for j in i.values():

if j not in s1:

s1.add(j)

print('Unique Values:',s1)

