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Python Programming - 2101CS405

Lab - 6

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Tuples, dictionary, set

Α

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

```
In [27]: dict = {1:'d',3:'r',2:'s',5:'k',4:'t'}

A = list(dict.keys())
A.sort()
print(A)

a={i:dict[i] for i in A}
print(a)

B = list(dict.values())
B.sort()
print(B)

thdict = {}

for j in B:
    for k in a:
        if(j == dict[k]):
        thdict[k] = j

print(thdict)
```

```
[1, 2, 3, 4, 5]
{1: 'd', 2: 's', 3: 'r', 4: 't', 5: 'k'}
['d', 'k', 'r', 's', 't']
{1: 'd', 5: 'k', 3: 'r', 2: 's', 4: 't'}
```

02) WAP to merge two dictionaries given by user.

```
In [38]: dict1 = {1:'krish',2:'rutvik',3:'soham'}
dict2 = {4:'ayush',5:'abhishek'}

dict1.update(dict2)
print(dict1)

n = int(input("n:"))
dict3 = {}

for i in range(0,n):
    key = int(input("key:"))
    value = input("values:")
    dict3[key] = value

print(dict3)

dict1.update(dict3)

print(dict1)

{1: 'krish', 2: 'rutvik', 3: 'soham', 4: 'ayush', 5: 'abhishek'}
n:3
```

```
{1: 'krish', 2: 'rutvik', 3: 'soham', 4: 'ayush', 5: 'abhishek'}
n:3
key:6
values:lalit
key:7
values:jeel
key:8
values:ansh
{6: 'lalit', 7: 'jeel', 8: 'ansh'}
{1: 'krish', 2: 'rutvik', 3: 'soham', 4: 'ayush', 5: 'abhishek', 6: 'lalit', 7: 'jeel', 8: 'ansh'}
```

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

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

```
In [47]: A = [(-2,-7,8),(-8,5,4),(1,2,3)]
    res = list(filter(lambda divk:all(i>0 for i in divk),A))
    print(res)
    [(1, 2, 3)]
```

05) WAP which perform union of two sets.

```
In [46]: set1 = {1,2,5,8,9}
set2 = {1,7,65,78,52}

res = set1.union(set2)
print(res)

{1, 2, 65, 5, 7, 8, 9, 78, 52}
```

В

[(2, 4, 6)]

01) WAP to convert binary tuple into integer.

```
In [5]: a = (1, 1, 0, 1, 0, 0, 1)

res = int("".join(str(i) for i in a), 2)

print(str(res))

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```

02) WAP to count frequency in list by dictionary.

```
In [56]: original_list = [1,2,1,6,7,8,8,9,6,2]
Dictionary = {}
for i in original_list:
    Dictionary[i]=original_list.count(i)

print(Dictionary)

{1: 2, 2: 2, 6: 2, 7: 1, 8: 2, 9: 1}
```

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