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Ans1- b(1)

Ans2-a(key error)

Ans3- c(3)

Ans4- d(4)

Ans5-d(6)

Ans6-b(30)

Ans7-d(type error)

Ans8- a(96,98,97)

Ans9- b(false)

Ans10-a(true)

Ans11-

```
d={"name":"ram","age":21}
 print(d) d.update({"city":"ayodhya"})
 print(d)
```

Ans12-

```
d1={"aman":"ram","abhi":25,"ash":23}
d2={"city":"kasganj","gender":"male"}
d3={"mark":450}
d4={}
for d in (d1,d2,d3):d4.update(d)
print(d4)
```

Ans13- d={"a":1,"b":2,"c":3}

```
key=input("enter the key to check")
if key in d.keys():
    print("key is present and the value of the keys is:")
    print(d[keys])
else:
    print("keys is not present")
```

Ans14-

```
dt={'a':'juice','b':'grill','c':'corn'}
for key, value in dt.items():
    print(key,value)
```

Ans15-

```
l=int(input("enter the number"))
d=dict()
for x in range(1,l+1):
    d[x]=x*x
print(d)
```

Ans16-

```
d=dict()
for x in range(1,16):
    d[x]=x**2
print(d)
```

Ans17-

```
dict1={1:'a',2:'b'}
dict2={2:'c',4:'d'}
print(dict1| dict2)
```

Ans18-

```
my_dict = {'data1':100,'data2':-54,'data3':247}
print(sum(my_dict.values()))
```

Ans19-

```
my_dict = {'data1':100,'data2':-54,'data3':247}
result=1

for key in my_dict:
    result=result*my_dict[key]
print(result)
```

Ans20-

```
myDict = {'a':1,'b':2,'c':3,'d':4}
print(myDict)
if 'a' in myDict:
    del myDict['a']

print(myDict)
```

Ans21-

```
keys = ['red', 'green', 'blue']
values=['#FF0000','#008000','#000F]
color_dictionary=dict(zip(keys,values)
 print(color_dictionary)
```

Ans22-

```
color_dict = {'red':'#FF0000', 'green':'#008000', 'black':'#000000', 'white':'#FFFFFF'}
for key in sorted(color_dict):
print("%s: %s" % (key, color_dict[key]))
```

Ans23-

```
mydict = {'x':500, 'y':5874, 'z': 560}

keymax = max(my_dict.keys(), key=(lambda k: mydict[k]))
keymin = min(my_dict.keys(), key=(lambda k: mydict[k]))

print('Maximum Value:',mydict[keymax])
print('MinimumValue:',mydict[keymin])
```

Ans-24-

```
class dictObj(object):
def_init___(self):
        self.x = 'red'
        self.y = 'Yellow'
        self.z = 'Green'
    def do_nothing(self):
    pass
test = dictObj()
print(test._____dict___)
```

Ans25-

```
emp_data = { '001':'Ramu', '002':'Radha''003':'Ramu', '004':'Raghav'}
print("Contents of the dictionary: " + str(emp_data))

temp = []
resultant_dictionary = dict()
for key, val in emp_data.items():

    if val not in temp:
            temp.append(val)
            resultant_dictionary[key] = val
print ("After Removing Duplicates : " + str(resultant_dictionary))
```

Ans26-

```
myDict = {}
if not myDict:
    print('The dictionary is empty.')
else:
    print('The dictionary is not empty.')
```

Ans27-

```
    dict1 = {'a': 12, 'for': 25, 'c': 9}
dict2 = {'Geeks': 100, 'geek': 200, 'for': 300}
for key in dict2:
    if key in dict1:
        dict2[key] = dict2[key] + dict1[key]
  else:
        pass
print(dict2)
```

Ans28-

```
L = [{"V":"S001"}, {"V": "S002"}, {"VI": "S001"},
{"VI": "S005"}, {"VII":"S005"}, {"V":"S009"},
{"VIII":"S007"}]
print("Original List: ",L)
u_value = set( val for dic in L for val in dic.values())
print("Unique Values: ",u_value)
```

Ans29-

```
import itertools

d ={'1':['a','b'], '2':['c','d']}

for combo in itertools.product(*[d[k] for k in

sorted(d.keys())]):

    print(''.join(combo))
```

Ans30-

```
my_dict = {'A': 67, 'B': 23, 'C': 45,'D': 56, 'E': 12, 'F': 69}
k = Counter(my_dict)

high = k.most_common(3)

print("Initial Dictionary:")

print(my_dict, "\n")

print("Dictionary with 3 highest values:")


print("Keys: Values")

for i in high:

    print(i[0]," :",i[1]," ")
```

Ans31-

```
from collections import Counter

item_list = [{'item': 'item1', 'amount': 400}, {'item':

'item2', 'amount': 300}, {'item': 'item1', 'amount': 750}]


result = Counter()

for d in item_list:

     result[d['item']] += d['amount']

print(result)
```

Ans32-

```
string = "{'A':13, 'B':14, 'C':15}"
Dict = eval(string)
print(Dict)
print(Dict['A'])
print(Dict['C'])
```

Ans33-

```
dict1 = {}
# Insert data into dictionary
dict1 = {1: ["Samuel", 21, 'Data Structures'],2: ["Richie", 20,
        'Machine Learning'],3: ["Lauren", 21, 'OOPS with java'],}
print("{:<10} {:<10} {:<10}".format('NAME', 'AGE','COURSE'))
for key, value in dict1.items():
    name, age, course = value
    print("{:<10} {:<10} {:<10}".format(name, age, course))
```

Ans34-

```
student = [{'id': 1, 'success': True, 'name': 'Lary'},
 {'id': 2, 'success': False, 'name': 'Rabi'},
 {'id': 3, 'success': True, 'name': 'Alex'}]
print(sum(d['id'] for d in student))
print(sum(d['success'] for d in student))
```

Ans35-

```
num_list = [1, 2, 3, 4]
 new_dict = current = {}
 for name in num_list:
      current[name] = {}

current = current[name]
 print(new_dict)
```

Ans36-

```
dict ={"L1":[87, 34, 56, 12],"L2":[23, 00, 30, 10],"L3":[1, 6, 2, 9],"L4":[40, 34, 21, 67]}
print("\nBefore Sorting: ")
for x in dict.items():
     print(x)
print("\nAfter Sorting: ")
for i, j in dict.items():
     sorted_dict ={i:sorted(j)}
     print(sorted_dict)
```

Ans37-

```
Product_list = {'P 01' : 'DBMS', 'P 02' : 'OS',
                'P 0 3 ': 'Soft Computing'}
Product_list = { x.translate({32:None}) : yfor x, y in
                 Product_list.items()}
```

```
print (" New dictionary : ", Product_list)
```

Ans38-

```
from heapq  import nlargest from operator import itemgetter
 items = {'item1': 45.50, 'item2':35, 'item3': 41.30,'item4':55,
 'item5': 24}
 for name, value in nlargest(3, items.items(),
 key=itemgetter(1)):
     print(name, value)
```

Ans39-

```
dict_num = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
print("key  value  count")
for count, (key, value) in enumerate(dict_num.items(), 1):
print(key,'  ',value,' ', count)
```

Ans40-

```
students = {'Aex':{'class':'V','rolld_id':2},
 'Puja':{'class':'V','roll_id':3}}
 for a in students:
     print(a)
     for b in students[a]:
         print (b,':',students[a][b])
```

Ans41-

```
student = {'name':
  'Alex','class':'V','roll_'}

print(student.keys() >= {'class', 'name'})
print(student.keys() >= {'name', 'Alex'})
print(student.keys() >= {'roll_id', 'name'})
```

Ans42-

```
dict =  {'Alex': ['subj1', 'subj2', 'subj3'], 'David':['subj1', 'subj2']}
ctr = sum(map(len, dict.values()))
print(ctr)
```

Ans43-

```
from collections import Counter
x = Counter({'Math':81, 'Physics':83, 'Chemistry':87})

print(x.most_common())
```

Ans44-

```
from collections import defaultdict
class_list = ['Class-V', 'Class-VI', 'Class-VII', 'Class-VIII']id_list = [1, 2, 2, 3]
temp = defaultdict(set)
for c, i in zip(class_list, id_list):
    temp[c].add(i)
print(temp)
```

Ans45-

```
def sum_math_v_vi_average(list_of_dicts):
for d in list_of_dicts:
        n1 = d.pop('V')
        n2 = d.pop('VI')
        d['V+VI'] = (n1 + n2)/2
    return list_of_dicts
student_details= [
{'id' : 1, 'subject' : 'math', 'V' : 70, 'VI' : 82},
{'id' : 2, 'subject' : 'math', 'V' : 73, 'VI' : 74},
{'id' : 3, 'subject' : 'math', 'V' : 75, 'VI' : 86}]
print(sum_math_v_vi_average(student_details))
```