# Assignment 12

#### 1.Write a Python program to Extract Unique values dictionary values?

***Answer:***

in\_dictionary = {1:'Rishikesh',2:'Badrinath',3:'Gangotri',4:'Yamunotri',5:'Kedarnath',6:'Tirupati',7:'Kedarnath'}  
print(in\_dict.values())  
print(f'Unique Values: {list(set(in\_dict.values()))}')

dictionary\_values(['Rishikesh', 'Badrinath', 'Gangotri', 'Yamunotri', 'Kedarnath', 'Tirupati', 'Kedarnath'])  
Unique Values: ['Badrinath', 'Gangotri', 'Kedarnath', 'Tirupati', 'Rishikesh', 'Yamunotri']

#### 2.Write a Python program to find the sum of all items in a dictionary?

***Answer:***

in\_dictionary = {'Apple':10,'Mango':20,'Banana':30,'Guava':40,'PineApple':200}  
print('Sum of All items: ',sum(in\_dict.values()))

Sum of All items: 300

#### 3.Write a Python program to Merging two Dictionaries?

***Answer:***

course\_details = {  
 'cousre\_name':'Ineuron'  
}  
instructors = {  
 'course\_instructors':['Sudhanshu Kumar','Krish Naik']  
}  
course\_details.update(instructors)  
print(course\_details)

{'cousre\_name': 'Ineuron', 'course\_instructors': ['Sudhanshu Kumar', 'Krish Naik']}

#### 4.Write a Python program to convert key-values list to flat dictionary?

***Answer:***

in\_list = [('A',10),('B',20),('C',30),('D',40),('E',50),('F',60),('G',70),('H',80),('I',90),('J',100)]  
  
# Method #1  
dict(in\_list)  
  
# Method #2  
out\_dict = {}  
for ele in in\_list:  
 out\_dict[ele[0]] = ele[1]  
print(out\_dict)

{'A': 10, 'B': 20, 'C': 30, 'D': 40, 'E': 50, 'F': 60, 'G': 70, 'H': 80, 'I': 90, 'J': 100}

#### 5.Write a Python program to insertion at the beginning in OrderedDict?

***Answer:***

from collections import OrderedDict  
dict\_one = OrderedDict({'Apple':'Iphone','Microsoft':'Windows','Google':'chrome'})  
print('dict\_one',dict\_one)  
dict\_two = {'Tesla':'SpaceX'}  
dict\_one.update(dict\_two)  
print('dict\_one',dict\_one)  
dict\_one.move\_to\_end('Tesla',last=False)  
print('dict\_one',dict\_one)

dict\_one OrderedDict([('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome')])  
dict\_one OrderedDict([('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome'), ('Tesla', 'SpaceX')])  
dict\_one OrderedDict([('Tesla', 'SpaceX'), ('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome')])

#### 6.Write a Python program to check order of character in string using OrderedDict()?

***Answer:***

from collections import OrderedDict  
  
initial\_list = {'a': 1000, 'f': 200, 'd': 300, 'c': 400, 'b': 500, 'e': 600}  
print(initial\_list)  
  
final\_list = OrderedDict(dict(sorted(initial\_list.items())))  
print(final\_list)

{'a': 1000, 'f': 200, 'd': 300, 'c': 400, 'b': 500, 'e': 600}  
OrderedDict([('a', 1000), ('b', 500), ('c', 400), ('d', 300), ('e', 600), ('f', 200)])

#### 7.Write a Python program to sort Python Dictionaries by Key or Value?

***Answer:***

d\_items = {'Mango':100,'PineApple':22,'Banana':60,'Grape':13}  
  
def sort\_dict(in\_dict,sort\_type):  
 if sort\_type == 'key':  
 print(dict(sorted(in\_dict.items(), key=lambda x:x[0], reverse=False)))  
 else:  
 print(dict(sorted(in\_dict.items(), key=lambda x:x[1], reverse=False)))  
   
sort\_dict(d\_items,'key')   
sort\_dict(d\_items,'value')

{'Banana': 60, 'Grape': 13, 'Mango': 100, 'PineApple': 22}  
{'Grape': 13, 'PineApple': 22, 'Banana': 60, 'Mango': 100}