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

I/P:

in\_dict **=** {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()))}')

O/P:

dict\_values(['Rishikesh', 'Badrinath', 'Gangotri', 'Yamunotri', 'Kedarnath', 'Tirupati', 'Kedarnath'])

Unique Values: ['Badrinath', 'Gangotri', 'Kedarnath', 'Tirupati', 'Rishikesh', 'Yamunotri']

1. **Write a Python program to find the sum of all items in a dictionary?**

I/P:

in\_dict **=** {'Apple':10,'Mango':20,'Banana':30,'Guava':40,'PineApple':200}

print('Sum of All items: ',sum(in\_dict**.**values()))

O/P:

Sum of All items: 300

1. **Write a Python program to merging two Dictionaries?**

I/P:

course\_details **=** {

'cousre\_name': 'Data Science'

}

instructor **=** {

'course\_instructor':[‘William Prior']

}

course\_details**.**update(instructor)

print(course\_details)

O/P:

{'cousre\_name': 'Data Science', 'course\_instructor': [‘William Prior’]}

1. **Write a Python program to convert key-values list to flat dictionary?ˍ**

I/P:

from itertools import product

my\_dict = {'num' : [12, 15, 18, 33], ‘val\_1' : [‘jam’, 'pencil', ‘star’, 'end’]}

print("The dictionary is : ")

print(my\_dict)

my\_result = dict(zip(my\_dict['num'], my\_dict[‘val\_1’]))

print("The flattened dictionary is: ")

print(my\_result)

O/P:

The dictionary is :

{'num': [12, 15, 18, 33], ‘val\_1': [‘jam’, 'pencil', ‘star’, 'end’]}

The flattened dictionary is:

{ 12: 'jam', 15: 'pencil', 18: 'star', 33: 'end'}

1. **Write a Python program to insertion at the beginning in OrderedDict?**

I/P:

**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)

O/P:

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')])

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

I/P:

**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)

O/P:

{'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)])

1. **Write a Python program to sort Python Dictionaries by Key or Value?**

I/P:

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')

O/P:

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

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