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

Ans1

my\_dict = {'a': 1, 'b': 2, 'c': 3, 'd': 2, 'e': 1}

values = my\_dict.values()

unique\_values = set(values)

print("Unique values in the dictionary are:", unique\_values)

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

Ans2

my\_dict = {'a': 10, 'b': 20, 'c': 30, 'd': 40}

sum\_of\_values = sum(my\_dict.values())

print("Sum of all items in the dictionary is:", sum\_of\_values)

3. Write a Python program to Merging two Dictionaries?

Ans3

dict1 = {'a': 1, 'b': 2}

dict2 = {'c': 3, 'd': 4}

merged\_dict = dict1.copy()

merged\_dict.update(dict2)

print("Merged dictionary is:", merged\_dict)

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

Ans4

# List of key-value pairs

key\_value\_list = [('a', 1), ('b', 2), ('c', 3), ('d', 4)]

flat\_dict = {}

for key, value in key\_value\_list:

flat\_dict[key] = value

print("Flat dictionary is:", flat\_dict)

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

Ans5

from collections import OrderedDict

my\_ordered\_dict = OrderedDict([('a', 1), ('b', 2), ('c', 3)])

my\_ordered\_dict.update({'d': 4})

my\_ordered\_dict.move\_to\_end('d', last=False)

print("Updated OrderedDict is:", my\_ordered\_dict)

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

Ans6

from collections import OrderedDict

def check\_order(input\_str, pattern):

pattern\_dict = OrderedDict.fromkeys(pattern)

current\_index = 0

for char in input\_str:

if char in pattern\_dict:

if pattern\_dict[char] != current\_index:

return False

current\_index += 1

return True

input\_str = 'hello world'

pattern = 'llo'

if check\_order(input\_str, pattern):

print("The order of characters in the string is correct.")

else:

print("The order of characters in the string is incorrect.")

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

Ans7

my\_dict = {'apple': 3, 'banana': 1, 'orange': 2, 'pear': 4}

sorted\_by\_key = dict(sorted(my\_dict.items()))

sorted\_by\_value = dict(sorted(my\_dict.items(), key=lambda x: x[1]))

print("Sorted by key:", sorted\_by\_key)

print("Sorted by value:", sorted\_by\_value)