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

def extract\_unique\_values(dictionary):

unique\_values = set()

# Iterate over the values of the dictionary

for value in dictionary.values():

# If the value is not already in the unique\_values set, add it

if value not in unique\_values:

unique\_values.add(value)

return unique\_values

# Example usage

dictionary = {'a': 1, 'b': 2, 'c': 1, 'd': 3, 'e': 2}

unique\_values = extract\_unique\_values(dictionary)

print(unique\_values)

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

def sum\_dictionary\_values(dictionary):

return sum(dictionary.values())

# Example usage

dictionary = {'a': 10, 'b': 20, 'c': 30, 'd': 40}

total\_sum = sum\_dictionary\_values(dictionary)

print("Sum of dictionary values:", total\_sum)

1. Write a Python program to Merging two Dictionaries?

def merge\_dictionaries(dict1, dict2):

merged\_dict = dict1.copy()

merged\_dict.update(dict2)

return merged\_dict

# Example usage

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

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

merged\_dict = merge\_dictionaries(dict1, dict2)

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

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

def convert\_to\_flat\_dictionary(kv\_list):

flat\_dict = {k: v for sublist in kv\_list for k, v in sublist}

return flat\_dict

# Example usage

key\_values = [['key1', 'value1'], ['key2', 'value2'], ['key3', 'value3']]

flat\_dictionary = convert\_to\_flat\_dictionary(key\_values)

print("Flat dictionary:", flat\_dictionary)

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

from collections import OrderedDict

def insert\_at\_beginning(od, key, value):

od[key] = value

od.move\_to\_end(key, last=False)

# Example usage

od = OrderedDict([('key1', 'value1'), ('key2', 'value2')])

print("Original OrderedDict:", od)

insert\_at\_beginning(od, 'key3', 'value3')

print("OrderedDict after insertion:", od)

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

from collections import OrderedDict

def check\_order\_of\_characters(string):

ordered\_dict = OrderedDict.fromkeys(string)

sorted\_string = ''.join(OrderedDict(sorted(ordered\_dict.items())).keys())

return string == sorted\_string

# Example usage

string1 = "hello"

string2 = "python"

string3 = "world"

print(check\_order\_of\_characters(string1)) # True

print(check\_order\_of\_characters(string2)) # False

print(check\_order\_of\_characters(string3)) # True

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

# Sorting by Key

def sort\_dict\_by\_key(dictionary):

sorted\_dict = dict(sorted(dictionary.items()))

return sorted\_dict

# Sorting by Value

def sort\_dict\_by\_value(dictionary):

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

return sorted\_dict

# Example usage

my\_dict = {'apple': 4, 'banana': 2, 'cherry': 3, 'durian': 1}

sorted\_by\_key = sort\_dict\_by\_key(my\_dict)

sorted\_by\_value = sort\_dict\_by\_value(my\_dict)

print(sorted\_by\_key)

print(sorted\_by\_value)