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

def extract\_unique\_values(dictionary):

unique\_values = []

for value in dictionary.values():

if value not in unique\_values:

unique\_values.append(value)

return unique\_values

# Example usage

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

print(extract\_unique\_values(d))

# Output: [1, 2, 3]

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

def sum\_of\_dictionary\_items(dictionary):

sum = 0

for value in dictionary.values():

sum += value

return sum

# Example usage

d = {'a': 1, 'b': 2, 'c': 3, 'd': 4}

print(sum\_of\_dictionary\_items(d))

# Output: 10

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

def merge\_dictionaries(dict1, dict2):

result = dict1.copy()

result.update(dict2)

return result

# Example usage

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

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

print(merge\_dictionaries(dict1, dict2))

# Output: {'a': 1, 'b': 2, 'c': 3, 'd': 4}

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

def flatten\_dict(key\_value\_pairs):

result = {}

for key, value in key\_value\_pairs:

result[key] = value

return result

# Example usage

key\_value\_pairs = [("a", 1), ("b", 2), ("c", 3)]

print(flatten\_dict(key\_value\_pairs))

# Output: {'a': 1, 'b': 2, 'c': 3}

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

from collections import OrderedDict

def insert\_at\_beginning(ordered\_dict, key, value):

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

ordered\_dict[key] = value

# Example usage

d = OrderedDict({'a': 1, 'b': 2, 'c': 3})

insert\_at\_beginning(d, 'd', 4)

print(d)

# Output: OrderedDict([('d', 4), ('a', 1), ('b', 2), ('c', 3)])

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

from collections import OrderedDict

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

char\_count = OrderedDict()

for char in string:

if char in char\_count:

char\_count[char] += 1

else:

char\_count[char] = 1

return char\_count

# Example usage

string = "hello"

print(check\_order\_of\_characters(string))

# Output: OrderedDict([('h', 1), ('e', 1), ('l', 2), ('o', 1)])

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

Here's a Python program to sort a dictionary by its keys:

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

return dict(sorted(dictionary.items()))

# Example usage

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

print(sort\_dict\_by\_key(d))

# Output: {'a': 1, 'b': 2, 'c': 3}

Here's a Python program to sort a dictionary by its values:

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

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

# Example usage

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

print(sort\_dict\_by\_value(d))

# Output: {'a': 1, 'c': 3, 'b': 2}