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

**Ans:- def dictionary(a):**

**Result = []**

**For I in a.values():**

**Result.append(I)**

**B = set(result)**

**Print(result)**

**Dictionary{“kapish”:25, “akash”:25, “manya”:24, “ishan”:30, “harishankar”:30}**

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

**Ans:- def dictionary(a):**

**Sum = 0**

**For I in a.values():**

**Sum += I**

**Print(sum)**

**Dictionary{“kapish”:25, “akash”:25, “manya”:24, “ishan”:30, “harishankar”:30}**

1. Write a Python program to Merging two Dictionaries?

**Ans:- def add\_items(a, b):**

**for i, j in b.items():**

**a[i] = j**

**print(a)**

**add\_items({"kapish": 25, "manya": 24}, {"sharwari": 24, "ishan": 30})**

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

**Ans:- def add\_items(a):**

**result = {}**

**for i, j in a:**

**result[i] = j**

**print(result)**

**add\_items([("kapish", 25), ("sharwari", 24), ("ishan", 30), ("mansi", 22)])**

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

**Ans:- from collections import OrderedDict**

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

**ordered\_dict[key] = value**

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

**# Create an empty OrderedDict**

**ordered\_dict = OrderedDict()**

**# Insert initial elements**

**ordered\_dict['key1'] = 'value1'**

**ordered\_dict['key2'] = 'value2'**

**ordered\_dict['key3'] = 'value3'**

**print("Before insertion:", ordered\_dict)**

**# Insert element at the beginning**

**insert\_at\_beginning(ordered\_dict, 'key4', 'value4')**

**print("After insertion:", ordered\_dict)**

**Before insertion: OrderedDict([('key1', 'value1'), ('key2', 'value2'), ('key3', 'value3')])**

**After insertion: OrderedDict([('key4', 'value4'), ('key1', 'value1'), ('key2', 'value2'), ('key3', 'value3')])**

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

**Ans:- from collections import OrderedDict**

**def check\_character\_order(string):**

**ordered\_dict = OrderedDict()**

**for char in string:**

**if char not in ordered\_dict:**

**ordered\_dict[char] = None**

**# Compare positions of characters**

**original\_order = ''.join(ordered\_dict.keys())**

**if original\_order == string:**

**return True**

**else:**

**return False**

**# Example usage**

**string1 = "hello"**

**string2 = "world"**

**print(f"Order check for '{string1}':", check\_character\_order(string1))**

**print(f"Order check for '{string2}':", check\_character\_order(string2))**

**Order check for 'hello': True**

**Order check for 'world': False**

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

**Ans:- def sort\_dictionary\_by\_key(dictionary):**

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

**return sorted\_dict**

**def sort\_dictionary\_by\_value(dictionary):**

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

**return sorted\_dict**

**# Example usage**

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

**# Sort dictionary by key**

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

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

**# Sort dictionary by value**

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

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

**Sorted by key: {'a': 1, 'b': 2, 'c': 3}**

**Sorted by value: {'a': 1, 'b': 2, 'c': 3}**