1. **Python program to find the sum of all items in a dictionary**: Given a dictionary in Python, write a Python program to find the sum of all values in the dictionary.

E.g.:

**Input**: {‘a’: 100, ‘b’:200, ‘c’:300}

**Output**: 600

**Input**: {‘x’: 25, ‘y’:18, ‘z’:45}

**Output**: 88

1. **Sort list of dictionaries by values.** Checking if two lists share at least one common element

E.g.:

**Input**: list = [{"name": "Nandini", "age": 20},

       {"name": "Manjeet", "age": 20},

       {"name": "Nikhil", "age": 19}]

**Output**: The list printed sorting by age:

[{'age': 19, 'name': 'Nikhil'}, {'age': 20, 'name': 'Nandini'}, {'age': 20, 'name': 'Manjeet'}]

1. **Key with maximum unique values.**Given a dictionary with values list, extract key whose value has most unique values. E.g.

**Input**: test\_dict = {"data”: [5, 7, 9, 4, 0], "is”: [6, 7, 4, 3, 3], "good”: [9, 9, 6, 5, 5]}

**Output**: data

**Explanation**:data is the key for which there are maximum unique values

1. **Replace words from Dictionary.** Given a String, replace certain words from the string which are keys in a lookup dictionary.

E.g.:

**Input**:

test\_str **=** **'Data** best for **commerce** students.'

lookup\_dict **=** **{**"**Data**": "machine-learning", " **commerce** ": "engineering"**}**

**Output**: machine-learning best for engineering students

1. **Convert a list of Tuples into Dictionary.** E.g.:

**Input**:

[("akash", 10), ("gaurav", 12), ("anand", 14), ("suraj", 20), ("akhil", 25), ("ashish", 30)]

**Output**:

**{**'akash': **[**10**]**, 'gaurav': **[**12**]**, 'anand': **[**14**]**, 'suraj': **[**20**]**, 'akhil': **[**25**]**, 'ashish': **[**30**]}**