Assignment - Dictionary

1. Write a Python program to print all unique values in a dictionary.

```
Sample Data : [{"V":"S001"}, {"V": "S002"}, {"VI": "S001"}, {"VI": "S005"}, {"VII":"S005"}, {"VII":"S009"},{"VIII":"S007"}]
```

Expected Output: Unique Values: {'S005', 'S002', 'S007', 'S001', 'S009'}

2. Write a Python program to combine values in python list of dictionaries.

Sample data: [{'item': 'item1', 'amount': 400}, {'item': 'item2', 'amount': 300}, {'item': 'item1', 'amount': 750}]

Expected Output: Counter({'item1': 1150, 'item2': 300})

```
| Care | Comparison | Comparison | Comparison | Comparison | Care | Care
```

3. Write a Python program to create a dictionary from a string.

Note: Track the count of the letters from the string.

```
Str1 = "Luminar Python"

str1 = str1.replace(" "_"")

str1 = str1.lower()

dict1 = {}

for i in str1:
    dict1[i] = str1.count(i)

print(dict1)

Deconstructions

C:\Users\user\PycharmProjects\NovemberPY\venv\Scripts\python.exe C:/Users/user/PycharmProjects/Nove
{'I': 1, 'u': 1, 'm': 1, 'i': 1, 'n': 2, 'a': 1, 'r': 1, 'p': 1, 'y': 1, 't': 1, 'h': 1, 'o': 1}

Process finished with exit code 0
```

4. Write a Python program to print a dictionary in table format.

```
# Contention | Contention | Contention | Contention | Contention | Content |
```

5. Write a Python program to print a dictionary line by line.

```
dict1 = {'Renuka': 25, 'Sanal': 20, 'John': 15, 'Veda': 23}

for i in dict1.items():
    print(i[0], ":", i[1])

for iin dict1.items0

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```

6. Write a Python program to sort (ascending and descending) a dictionary by value.

Expected O/P:

Original dictionary: {1: 2, 3: 4, 4: 3, 2: 1, 0: 0}

Dictionary in ascending order by value : [(0, 0), (2, 1), (1, 2), (4, 3), (3, 4)]

Dictionary in descending order by value : {3: 4, 4: 3, 1: 2, 2: 1, 0: 0}

```
ascDict = {}
   disDict = {}
   val = []
   val1 = []
   key = []
    val = list(dict1.values())
    val1 = list(dict1.values())
    val.sort() # sorted values in ascending order
    val1.sort(reverse=True)_# sorted values in descending order
   key = list(dict1.keys()) # List of keys
   for i in val:
        index = list(dict1.values()).index(i)
       ascDict[key[index]] = i
    for i in val1:
       index = list(dict1.values()).index(i)
        disDict[key[index]] = i
   print("Ascending Dictionary"_ascDict, "\n Descending Dictionary"_disDict)
C:\Users\user\PycharmProjects\NovemberPY\venv\Scripts\python.exe C:/Users/user/
Ascending Dictionary {0: 0, 2: 1, 1: 2, 4: 3, 3: 4}
Descending Dictionary {3: 4, 4: 3, 1: 2, 2: 1, 0: 0}
```

7. Write a Python script to concatenate two dictionaries to create a new one.

```
# concatenate two dictionaries

# using update() method

dict1 = {"Name": "Amal", "Age": 25, "course": "Java"}

dict2 = {"state": "kerala", " Gender": "Male"}

dict1.update(dict2)

print(dict1)

# using merge(|) method

dict1 = {"Name": "Amal", "Age": 25, "course": "Java"}

dict2 = {"state": "kerala", " Gender": "Male"}

dict3 = dict1 | dict2

print(dict3)

# Using ** operator

dict4 = {**dict1, **dict2}

print(dict4)

**C:\Users\user\PycharmProjects\NovemberPY\venv\Scripts\python.exe C:/Users/user/PycharmProj

{'Name': 'Amal', 'Age': 25, 'course': 'Java', 'state': 'kerala', ' Gender': 'Male'}

{'Name': 'Amal', 'Age': 25, 'course': 'Java', 'state': 'kerala', ' Gender': 'Male'}

{'Name': 'Amal', 'Age': 25, 'course': 'Java', 'state': 'kerala', ' Gender': 'Male'}

{'Name': 'Amal', 'Age': 25, 'course': 'Java', 'state': 'kerala', ' Gender': 'Male'}

{'Name': 'Amal', 'Age': 25, 'course': 'Java', 'state': 'kerala', ' Gender': 'Male'}
```