DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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WORKSHEET 2.3

Name: SABHYA MAHAJAN
Branch: CSE
Semester: 4th
Subject Name: Python

UID: 21BCS9200
Section/Group: 801-A
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1. Aim:

- Write a Python program to combine two dictionary adding values for common keys. d1 = {'a': 100, 'b': 200, 'c':300}, d2 = {'a': 300, 'b': 200, 'd':400}
- Write a Python program to find the highest 3 values of corresponding keys in a dictionary.

2. Source Code:

a) Write a Python program to combine two dictionary adding values for common keys. d1 = {'a': 100, 'b': 200, 'c':300}, d2 = {'a': 300, 'b': 200, 'd':400}

```
print("Name - SABHYA MAHAJAN, UID - 21BCS9200")
dict1 = {"a": 100, "for": 200, "c": 300}
dict2 = {"a": 300, "b": 200, "d": 400}

for key in dict2:
    if key in dict1:
        dict2[key] = dict2[key] + dict1[key]
    else:
        pass

print(dict2)
```

b) **Write a Python program to find the highest 3 values of corresponding keys in a dictionary.**

```
print("Name - SABHYA MAHAJAN, UID - 21BCS9200")
from collections import Counter

my_dict = {"A": 67, "B": 23, "C": 45, "D": 56, "E": 12, "F": 69}

k = Counter(my_dict)

high = k.most_common(3)

print("Initial Dictionary:")
print(my_dict, "\n")


print("Dictionary with 3 highest values:")
print("Keys: Values")

for i in high:
    print(i[0], " :", i[1], " ")
```

3. Output:

a)

```
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python> & C:/Users/lenovo/AppData/Local/Pro
grams/Python/Python311/python.exe c:/Users/lenovo/OneDrive/Desktop/PRO/Python/first
.py
Name - SABHYA MAHAJAN, UID - 21BCS9200
{'a': 400, 'b': 200, 'd': 400}
```

b)

```
PS C:\Users\lenovo\OneDrive\Desk> & C:/Users/lenovo/AppData/Local/Programs/Python/P
ython311/python.exe c:/Users/lenovo/OneDrive/Desktop/PRO/Python/first.py
Name - SABHYA MAHAJAN, UID - 21BCS9200
Initial Dictionary:
{'A': 67, 'B': 23, 'C': 45, 'D': 56, 'E': 12, 'F': 69}

Dictionary with 3 highest values:
Keys: Values
F  : 69
A  : 67
D  : 56
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python>
```