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Experiment 2.3

Student Name:Rajiv Paul   **UID:20BCS1812**

 Branch: CSE   **Section/Group:607A**

Semester: 4th   **Date of Performance: 31/03/2022**

Subject Name:Programming in Python Lab   **Subject Code: 22E-20CSP-259**

1) **Aim/Overview of the practical:**

Q1. 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}

2) **Task to be done/ Which logistics used:**

To 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}

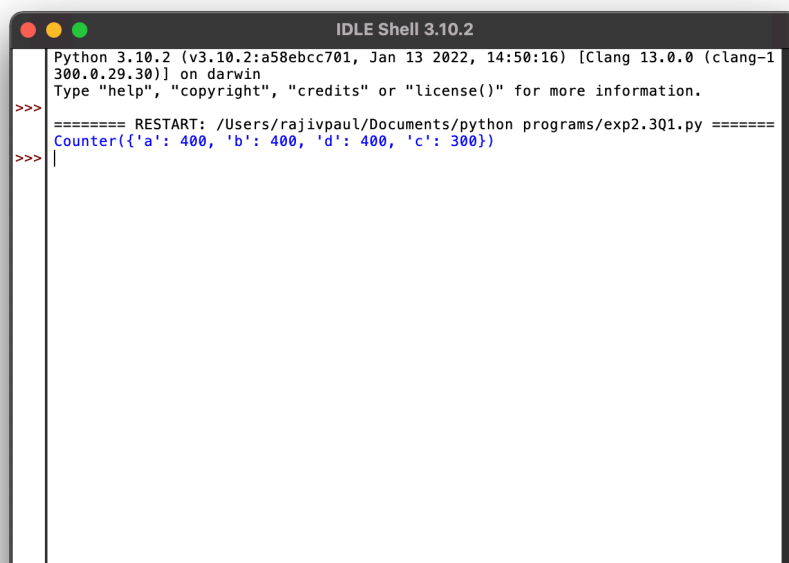3) **Algorithm/Flowchart (For programming based labs):**

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4) Steps for experiment/practical/Code:

```python
from collections import Counter
d1 = {'a': 100, 'b': 200, 'c':300}
d2 = {'a': 300, 'b': 200, 'd':400}
d = Counter(d1) + Counter(d2)
print(d)
```

exp2.3Q1.py - /Users/rajivpaul/Documents/python programs/exp2.3Q1.py (3.10...

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:

```
IDLE Shell 3.10.2
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1
300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: /Users/rajivpaul/Documents/python programs/exp2.3Q1.py =======
Counter({'a': 400, 'b': 400, 'd': 400, 'c': 300})
>>>
```

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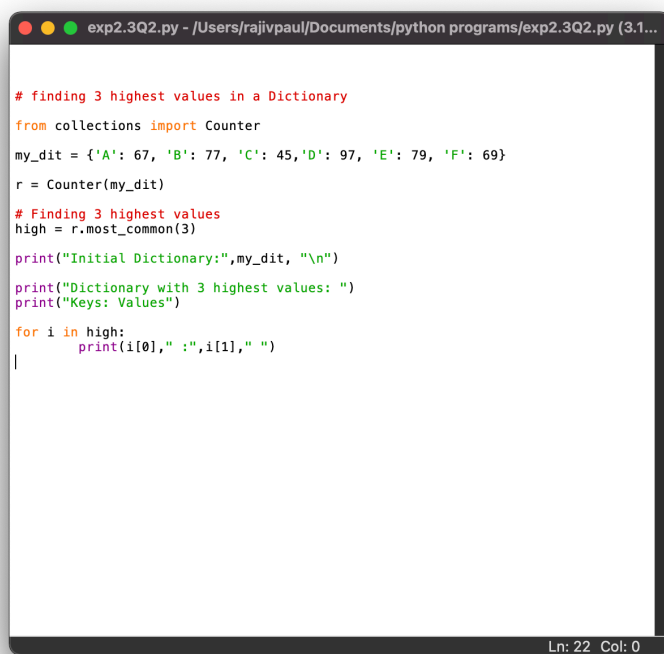## 1) Aim/Overview of the practical:

Q2. Write a Python program to find the highest 3 values of corresponding keys in a dictionary.

2) Task to be done/ Which logistics used:

To write a python program to find the highest 3 values of corresponding keys in a dictionary.

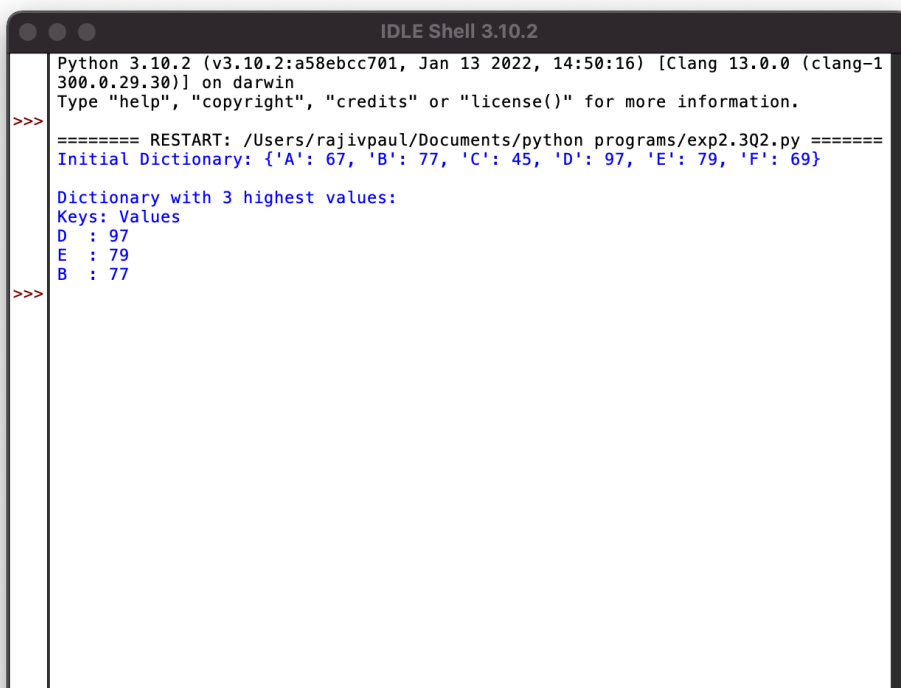## 3) Algorithm/Flowchart (For programming based labs):

4) Steps for experiment/practical/Code:

```
# finding 3 highest values in a Dictionary

from collections import Counter

my_dit = {'A': 67, 'B': 77, 'C': 45,'D': 97, 'E': 79, 'F': 69}

r = Counter(my_dit)

# Finding 3 highest values
high = r.most_common(3)

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

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

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

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:

```
IDLE Shell 3.10.2

Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1
300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: /Users/rajivpaul/Documents/python programs/exp2.3Q2.py =======
Initial Dictionary: {'A': 67, 'B': 77, 'C': 45, 'D': 97, 'E': 79, 'F': 69}

Dictionary with 3 highest values:
Keys: Values
D  : 97
E  : 79
B  : 77
>>>
```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			