EXPERIMENT – 2.3

Name: Ravi Shankar Singh   **UID: 21BCS11619**
Branch: CSE   **Section/Group: 808-B**
Semester: 4th   **Date of Performance:**
Subject Name: Programming in Python lab   **Subject Code: 21CSP-259**

Aim:

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

Source Code:

1.) 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}

```python
d1 = {'a': 100, 'b': 200, 'c': 300}
d2 = {'a': 300, 'b': 200, 'd': 400}


result_dict = {}


for key in d1.keys() | d2.keys():
```

```python
        if key in d1 and key in d2:
            result_dict[key] = d1[key] + d2[key]

        elif key in d1:
            result_dict[key] = d1[key]

        else:
            result_dict[key] = d2[key]

    print(result_dict)
```

Output:

Shell   Clear

```
{'c': 300, 'b': 400, 'a': 400, 'd': 400}
>
```

Source code:

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

```
my_dict = {'a': 20, 'b': 50, 'c': 30, 'd': 80, 'e': 10}

sorted_dict = sorted(my_dict.items(), key=lambda x: x[1], reverse=True)

top3_items = sorted_dict[:3]

result_dict = dict(top3_items)

print(result_dict)
```

Output:

Shell	Clear

```
{'d': 80, 'b': 50, 'c': 30}
>
```