

## Lab Assignment 13

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**Topic : Dictionary**

Q1. Write a Python script to concatenate the following dictionaries to create a new one.

Sample Dictionary : dic1={1:10, 2:20} dic2={3:30, 4:40} dic3={5:50,6:60} Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

Code:

```
dic.py > ...
1
2 dic1 = {1: 10, 2: 20}
3 dic2 = {3: 30, 4: 40}
4 dic3 = {5: 50, 6: 60}
5 dicts = [dic1, dic2, dic3] # List of dictionaries
6 result = {} # Concatenating all dictionaries into a new one using a for loop
7
8 for dic in dicts: # Iterate over the list of dictionaries and update the result dictionary
9     result.update(dic)
10
11 print("Concatenated Dictionary:", result) # Display the concatenated result
12
```

Output:

```
Concatenated Dictionary: {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
```

Q2. Write a Python program to get the key, value and item in a dictionary.

input: dict\_num = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

Code:

```
dict1.py > ...
1 dict = {1:10,2:20,3:30,4:40,5:50,6:60}
2 print("Key Value")
3 for Key,Value in dict.items():
4     print(Key, ":",Value)
5
6
7
```

Output:

```
Key Value
1 : 10
2 : 20
3 : 30
4 : 40
5 : 50
6 : 60
```

