

# ASSIGNMENT-9

Q Write a Python Program merging two dictionaries

Q Program to check if a key exists in a nested dictionary without raising a KeyError:

```
my_dict = {'person': {'name': 'John', 'age': 30}}  
key_to_check = 'name'
```

Q Design a program for managing a phone book. It should allow users to add contacts, search for contacts by name, delete contacts, and list all contacts in the phone book. Implement this using a dictionary where names are keys, and contact information is stored as values.

```
Q nested_dict = {'first': {'a': 1, 'b': 2}, 'second': {'x': 10, 'y': 20}, 'first': {'a': 1, 'b': 2}, 'third':  
{ 'x': True, 'y': False}}
```

```
Q items = [{  
    {'name': 'apple', 'category': 'fruits'},  
    {'name': 'banana', 'category': 'fruits'},  
    {'name': 'carrot', 'category': 'vegetables'},  
    {'name': 'cherry', 'category': 'fruits'},  
    {'name': 'onion', 'category': 'vegetables'}  
}]
```

Q merging two dictionary but add key of one dictionary to another dictionary or add value of one dictionary to another dictionary.

```
matrix1 = {'00': 2, '01': 3, '10': 4, '11': 5}  
matrix2 = {'00': 1, '01': 2, '10': 1, '11': 2}
```