

In [1]:

```
#pip install pymongo
```

```
#open Mongodb shell and get the ip address being present at top of the shell.
```

In [2]:

```
# import pymongo and connect Mong client with the ipadress from the shell
```

```
import pymongo
```

```
mongo=pymongo.MongoClient("mongodb://127.0.0.1:27017/")
```

In [3]:

```
#execute the command mongo.list_database.names() to list all the existing databases present in Mongodb
```

```
all_databases = mongo.list_database_names()
```

```
print(all_databases)
```

```
['admin', 'bank', 'config', 'dilip', 'guvi1', 'local']
```

## Reading

In [4]:

```
#set the database and collection to read
```

```
mydb=mongo['dilip']
```

```
bankcollection=mydb['bank']
```

In [5]:

```
# find_one() is used to read the first document entry from the collection
```

```
data = bankcollection.find_one()
```

```
print(data)
```

```
{'_id': ObjectId('632ee090971bca0b00762931'), 'name': 'Name1', 'accountType': 'Savings', 'salary': 60000, 'incometax': 5000, 'location': 'Mysuru'}
```

In [6]:

```
#specific_data=mycollection.find_one({}, {hiding fields(0)/show fields(1)})
```

```
specific_data=bankcollection.find_one({}, {'_id':0, 'name':1, 'accountType':1, 'location':1})
```

```
print(specific_data)
```

```
{'name': 'Name1', 'accountType': 'Savings', 'location': 'Mysuru'}
```

In [7]:

*# find() is used to read all the documents entries from collection*

```
data1 =bankcollection.find()
for dat in data1:
    print(dat)
```

```
{'_id': ObjectId('632ee090971bca0b00762931'), 'name': 'Name1', 'accountType': 'Savings', 'salary': 60000, 'incometax': 5000, 'location': 'Mysuru'}
{'_id': ObjectId('632ee093971bca0b00762932'), 'name': 'Name1', 'accountType': 'Savings', 'salary': 30000, 'incometax': 2000, 'location': 'Bengaluru'}
{'_id': ObjectId('632ee093971bca0b00762933'), 'name': 'Name2', 'accountType': 'Savings', 'salary': 40000, 'incometax': 3000, 'location': 'Mysuru'}
{'_id': ObjectId('632ee093971bca0b00762934'), 'name': 'Name3', 'accountType': 'Current', 'salary': 50000, 'incometax': 4000, 'location': 'Bengaluru'}
{'_id': ObjectId('632ee093971bca0b00762935'), 'name': 'Name4', 'accountType': 'Savings', 'salary': 60000, 'incometax': 5000, 'location': 'Mysuru'}
{'_id': ObjectId('632ee75699df7b45728fb1df'), 'name': 'Name1', 'accountType': 'Savings', 'salary': 60000, 'incometax': 5000, 'location': 'Mysuru'}
{'_id': ObjectId('632ee75899df7b45728fb1e0'), 'name': 'Name1', 'accountType': 'Savings', 'salary': 30000, 'incometax': 2000, 'location': 'Bengaluru'}
{'_id': ObjectId('632ee75899df7b45728fb1e1'), 'name': 'Name2', 'accountType': 'Savings', 'salary': 40000, 'incometax': 3000, 'location': 'Mysuru'}
{'_id': ObjectId('632ee75899df7b45728fb1e2'), 'name': 'Name3', 'accountType': 'Current', 'salary': 50000, 'incometax': 4000, 'location': 'Bengaluru'}
{'_id': ObjectId('632ee75899df7b45728fb1e3'), 'name': 'Name4', 'accountType': 'Savings', 'salary': 60000, 'incometax': 5000, 'location': 'Mysuru'}
```

In [8]:

*#specific\_data=mycollection.find\_one({}, {hiding fields(0)/show fields(1)})*

```
data1 =bankcollection.find({}, {'_id':0, 'name':1, 'accountType':1, 'location':1})
for dat in data1:
    print(dat)
```

```
{'name': 'Name1', 'accountType': 'Savings', 'location': 'Mysuru'}
{'name': 'Name1', 'accountType': 'Savings', 'location': 'Bengaluru'}
{'name': 'Name2', 'accountType': 'Savings', 'location': 'Mysuru'}
{'name': 'Name3', 'accountType': 'Current', 'location': 'Bengaluru'}
{'name': 'Name4', 'accountType': 'Savings', 'location': 'Mysuru'}
{'name': 'Name1', 'accountType': 'Savings', 'location': 'Mysuru'}
{'name': 'Name1', 'accountType': 'Savings', 'location': 'Bengaluru'}
{'name': 'Name2', 'accountType': 'Savings', 'location': 'Mysuru'}
{'name': 'Name3', 'accountType': 'Current', 'location': 'Bengaluru'}
{'name': 'Name4', 'accountType': 'Savings', 'location': 'Mysuru'}
```

In [ ]: