**NAME:- Bryce Ferreira**

**ENROLLMENT NO:- MITU20BTCS0076**

**ROLL NO.:- 2203129**

**Class:- TY CSE CORE:- 3**

# Practical:-7

| Part A |
|---|
| **Practical Objective:** Execute NoSQL queries on the sample collections using MongoDB and User Interface in either Java, Python, or PHP |
| **Prerequisite: Implementation of commands of mongodb and python Install anaconda or jupyter notebook** |
| **Software: Mongodb** |
| **CO Mapping:** CO3: To get hands on exposure on NOSQL(Mongo) DB. |
| **Practical Outcomes:** At the end of this practical student will be able to: Have the database access in python from mongo db |
| **Theory:** |

1. **Type Pip install pymongo on cmd**
2. client=pymongo.MongoClient("mongodb://localhost:27017")
3. db=client["BOOK"]
4. print(db)
5. mycollection=db["BOOK1"]
6. print(mycollection)
7. one_record1 = mycollection.find_one()
8. print(one_record1)
9. all_records=mycollection.find()
10. print(all_records)
11. for row in all_records:
       print(row)

**Procedure:**
1. Create database and collection in mongo db
2. Formulate the commands in python

**Practice Exercise:**

1. **Execute the above commands in jupyter notebook**

**Instructions:**
1. Write and execute the in MONGODB.
2. Paste the snapshot of the output in input & output section.

| Part B |
|---|
| **Code and Output:** Perform the operation and paste the running code here. |

```
In [1]: import pymongo

In [2]: import pandas as pd

In [3]: client=pymongo.MongoClient("mongodb://localhost:27017")

In [5]: db=client["collection"]

In [6]: print(db)
        Database(MongoClient(host=['localhost:27017'], document_class=dict, tz_aware=False, connect=True), 'collection')

In [7]: mycollection=db["collection2"]

In [8]: print(mycollection)
        Collection(Database(MongoClient(host=['localhost:27017'], document_class=dict, tz_aware=False, connect=True), 'collection'), 'c
        ollection2')
```

**Observation & Learning:**
Write your observation and learning after performing the task.

**Conclusion:**
Write statement of conclusion here.

```
In [1]: import pymongo

In [2]: import pandas as pd

In [3]: client=pymongo.MongoClient("mongodb://localhost:27017")

In [5]: db=client["collection"]

In [6]: print(db)
        Database(MongoClient(host=['localhost:27017'], document_class=dict, tz_aware=False, connect=True), 'collection')
```