**PRACTICAL NO.7**

**7. Python and MongoDB**

**a. Connecting Python with MongoDB and inserting, retrieving, updating and deleting.**

Step 1: Install pymongo

In terminal:

pip install pymongo

**1) Insertion:-**

**Code:**

from pymongo import MongoClient

client=MongoClient("mongodb://localhost:27017/")

db=client["python\_db"]

coll=db["emp"]

rec={"name":"ancel","age":20}

i=coll.insert\_one(rec)

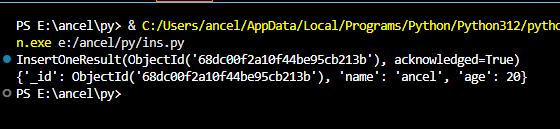
print(i)

p=coll.find()

for x in p:

    print(x)

**Output:**

****

**Retrieving data:-**

**Code:**

from pymongo import MongoClient

c=MongoClient("mongodb://localhost:27017/")

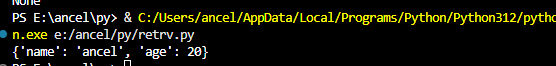
db=c["python\_db"]

coll=db["emp"]

r=coll.find\_one({"age":20},{"\_id":0})

print(r)

**Output:**

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**Inserting multiple data:-**

from pymongo import MongoClient

client = MongoClient("mongodb://localhost:27017/")

db = client["python\_db"]

coll = db["emp"]

records = [

    {"name": "ancel", "age": 20},

    {"name": "Rohit", "age": 25},

    {"name": "Sujal", "age": 22}

]

result = coll.insert\_many(records)

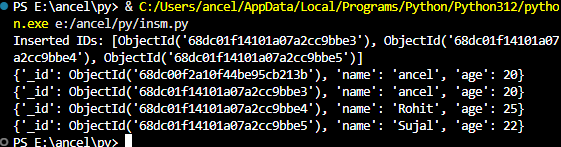
print("Inserted IDs:", result.inserted\_ids)

# Fetch and print all documents

for doc in coll.find():

    print(doc)

**Output:**

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**Delete:**

**Code:**

from pymongo import MongoClient

c=MongoClient("mongodb://localhost:27017/")

db=c["python\_db"]

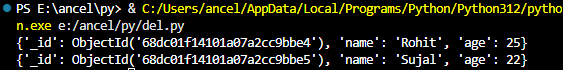
coll=db["emp"]

r=coll.delete\_many({"age":20})

for x in coll.find():

    print(x)

**Output:**

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**Update:**

**Code:**

from pymongo import MongoClient

c=MongoClient("mongodb://localhost:27017/")

db=c["python\_db"]

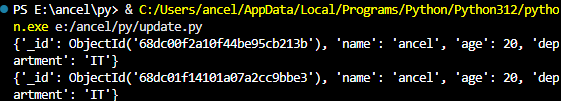
coll=db["emp"]

r=coll.update\_many({"name":"ancel"},{"$set":{"department":"IT"}})

for x in coll.find():

    print(x)

**Output:**

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