**PRACTICAL NO. 7**

**7. Python and MongoDB**

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

**Inserting:**

from pymongo import MongoClient

client = MongoClient('localhost',27017)

db=client.MyDb

def insert():

try:

name1=input("Enter the name");

age1=input("Enter the age");

db.MyCol.insert\_one(

{

"name":name1,

"age":age1

}

)

print("inserted data sucessfully");

except Exception:

print(str("Error"))

insert()

SAVE THE FILE AS \_\_.PY

IN COMMAND PROMPT FIRST START MONGOD

**C:\Program Files\MongoDB\Server\4.2\bin>mongod**

IN ANOTHER COMMAND PROMPT START MONGOD

**C:\Program Files\MongoDB\Server\4.2\bin>mongo**

**> show dbs**

admin 0.000GB

college 0.000GB

MyDb 0.000GB

**> use MyDb**

switched to db mydb11

**> show collections**

MyCol

**> db.MyCol.find()**

{ "\_id" : ObjectId("66d5880e3546e3dc4f223d57"), "name" : "Adshaya", "age" : "19" }

**Retrieving:**

from pymongo import MongoClient

client = MongoClient('localhost',27017')

db = client.MyDb

def read():

try:

Col = db.MyCol.find()

print("\n All data from student Database \n")

for MyCol in Col:

print(MyCol)

except Exception:

print(str("Error"))

read()

**OUTPUT:**

**All data from student Database**

**{'\_id': ObjectId('66d5880e3546e3dc4f223d57'), 'name': 'Adshaya', 'age': '19'}**

**Updating:**

from pymongo import MongoClient

client = MongoClient('localhost',27017)

db=client.MyDb

def update():

try:

name1=input("Enter name to update:");

age1=input("Enter age to update:");

db.MyCol.update\_one(

{"name":name1},

{"$set":{"age":age1}}

)

print("\nUpdated data sucessfully");

except Exception:

print(str("Error"))

update()

**> show collections**

**MyCol**

**> db.MyCol.find()**

**{ "\_id" : ObjectId("66d5880e3546e3dc4f223d57"), "name" : "Adssss", "age" : "18" }**

**>**

**Deleting:**

from pymongo import MongoClient

client = MongoClient('localhost',27017)

db = client.MyDb

def delete():

try:

name1 = input("Enter name : ")

db.MyCol.delete\_one(

{"name":name1}

)

print("\nDeletion successful\n")

except (Exception):

print(str(e))

delete()

**OUTPUT:**

**Enter name : nm**

**Deletion successful**

**> show dbs**

**College2 0.000GB**

**local 0.000GB**

**myDb1 0.000GB**

**myDb2 0.000GB**

**restaurants 0.001GB**

**resturant1 0.001GB**

**> use myDb**

**switched to db myDb**

**> show collections**

**> use MyDb**

**switched to db MyDb**

**> show collections**

**MyCol**

**> db.MyCol.find()**

**{ "\_id" : ObjectId("66cc2e5f64a53b621cb738d8"), "name" : "nm", "age" : "3" }**

**> db.MyCol.find()**

**>(“DELETED”)**