**Lab Exercise 3- MongoDB with Python**

Here's a lab exercise that demonstrates how to connect to a MySQL database using Python:

**Step 1: Install the necessary packages**

Make sure you have the pymongo package installed. You can install it using pip:

pip install pymongo

**Step 2: Connect to the MongoDB database**

import pymongo

# Connect to the MongoDB server

myclient = pymongo.MongoClient("mongodb://localhost:27017/")

mydb = myclient["mydatabase"]

**Step 3: Create a collection and insert data**

# Create a collection and insert data

mycol = mydb["customers"]

mydict = { "name": "John", "address": "Highway 37" }

x = mycol.insert\_one(mydict)

print(x.inserted\_id)

**Step 4: Query the database**

# Query the database

for x in mycol.find():

print(x)

**Step 5: Update data in the collection**

# Update data in the collection

myquery = { "address": "Highway 37" }

newvalues = { "$set": { "address": "Park Lane 38" } }

mycol.update\_one(myquery, newvalues)

for x in mycol.find():

print(x)

**Step 6: Delete data from the collection**

# Delete data from the collection

myquery = { "address": "Park Lane 38" }

mycol.delete\_one(myquery)

for x in mycol.find():

print(x)

**Step 7: Close the connection**

# Close the connection

myclient.close()

**Conclusion**

This exercise provides a basic demonstration of how to work with MongoDB using Python. Experiment further with different MongoDB operations and error handling to deepen your understanding of MongoDB database operations with Python.