

Q31. Write a python program to perform CRUD operations in MongoDB.

```
from pymongo import MongoClient

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

mydb = client["mydatabase"]
mycol = mydb["customers"]

# Create (Insert operation)

def create_data():

    mydict = {"name": "Tarun", "Address": "Pune", "Phone No": 909034}

    result = mycol.insert_one(mydict)

    print(f"Inserted document with _id: {result.inserted_id}")

# Read (Find operation)

def read_data():

    # Find one document

    result = mycol.find_one({"name": "Tarun"})

    print("Found document:", result)

    # Find all documents

    all_docs = mycol.find()

    print("All documents in the collection:")

    for doc in all_docs:

        print(doc)

# Update operation

def update_data():

    query = {"name": "Tarun"}

    new_values = {"$set": {"Address": "Mumbai"}}

    result = mycol.update_one(query, new_values)
```

```

print(f"Updated {result.modified_count} document(s)")

# Delete operation
def delete_data():
    query = {"name": "Tarun"}
    result = mycol.delete_one(query)
    print(f"Deleted {result.deleted_count} document(s)")

# Run all operations
create_data() # Insert data
read_data() # Read data
update_data() # Update data
delete_data() # Delete data

```

OutPut:

Inserted document with _id: 6762a2e7bf33e4b0230bdc9f

Found document: {'_id': ObjectId('6762a2e7bf33e4b0230bdc9f'), 'name': 'Tarun', 'Address': 'Pune', 'Phone No': 909034}

All documents in the collection:

{'_id': ObjectId('6762a2e7bf33e4b0230bdc9f'), 'name': 'Tarun', 'Address': 'Pune', 'Phone No': 909034}

Updated 1 document(s)

Deleted 1 document(s)