// 31139-Durvesh-DBMSLC1-writeup

CLASSMATE
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Assignment No. C4

- Title: MongoDB - Java Connectivity
- Problem Statement: To study and implement database connectivity & perform operations on it (add, delete, edit) using JDBC.
- Objective: To,
  1) Understand the concept of database.
  2) Understand the concept of mongodb.
  3) Understand the database operations.
- Outcomes: Students will be able to:
  1) Implement the database using MongoDB.
  2) Implement & perform different queries on database.
- Software & Hardware Requirements:
  mongodb, Java, PC with configuration as latest versions of 64-bit OS, Open Source Fedora/Windows 10, 8 GB RAM, 500 GB HDD.
- Theory:
  mongodb is a free and open-source cross-platform document-oriented database program, mongoDB uses JSON-like documents with schemas. MongoDB is developed by mongo DB INC & is published under a combination of the GNU Affero GPL & the Apache License.

Connect to database java:

To connect database, you need to specify the database name, if the database doesn't exist then mongoDB creates it automatically.

```
// Creating a mongo client
MongoClient mongo = new MongoClient("localhost", 27017);

// Creating Credentials

MongoCredential credential = MongoCredential.createCredential
("sampleuser", "myDb", "password".toCharArray());

// Accessing database
MongoDatabase database = mongo.getDatabase("myDb");
```

- Test Cases:

	Operation	Expected o/p	Actual o/p	Result
1)	Insertion	Document inserted successfully	Document inserted successfully	PASS
2)	Deletion	Document deleted successfully	Document deleted successfully	PASS
3)	Updation	Document updated	Document Updated	PASS
5)	Find	Document displayed	Document displayed	PASS

- Conclusion:

We successfully implemented mongo DB database connectivity with java & its operations.