

ADVANCED DATABASE

Practical No: 3

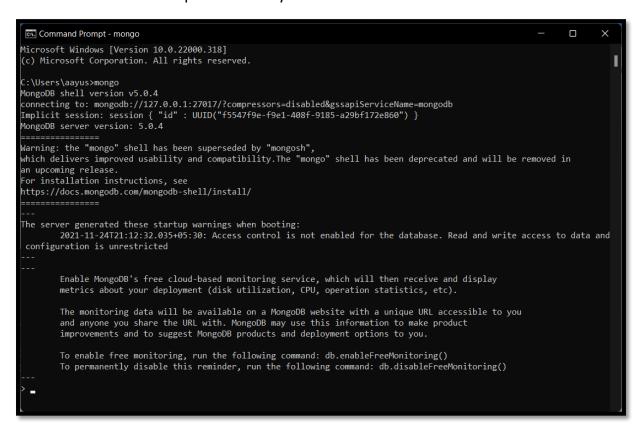
Aim: To perform CRUD Operation using MongoDB.

Software Requirement:

MongoDB

Practical Implementation Steps:

- ✓ Step 1:- Open CMD and hit command "Mongo" [To directly run MongoDB from Command Prompt we need to First Set the Environment Variable for MongoDB]
- ✓ To set Environment Variable Follow the Steps:
 - Open C drive -> Program Files -> MongoDB -> server -> 5.0 -> bin C:\Program Files\MongoDB\Server\5.0\bin [Copy the Path].
 - Start -> Search For "Edit the System Environment Variable" -> Open.
 - * Add the Copied Path in System Variable and done.



✓ Step 2: Creating and selecting database

Command: use aayushman027 [i.e. aayushman027 is Database

Name]

Note: To list all Database use the command: Show dbs.

ADVANCED DATABASE

```
Command Prompt - mongo — X

> use aayushman027

switched to db aayushman027

> ■
```

✓ Step 3: Creating Collections and Inserting Values [C - Create]

Creating a collection and inserting values can be done together. Here we have orcollection name as 'student'

✓ Step 4: Read Data from the Collections [R - Read]
To retrieve the inserted document

✓ Step 5: Updating a Document in a Collection [U - Update]

```
Command Prompt - mongo

- - X

> db.student.update ({No: 2}, {$set: {"Name": "Aashi"}})

NriteResult({ "nMatched": 1, "nUpserted": 0, "nModified": 1 })

> db.student.find()

{ "_id": ObjectId("61a0fa074ad52e8d216e0d42"), "No": 1, "Name": "Aayushman", "Course": "MSC-CS", "Subject": "ADB", "Duration": "40 Minute" }

{ "_id": ObjectId("61a0fa074ad52e8d216e0d43"), "No": 2, "Name": "Aashi", "Course": "MSC-IT", "Subject": "AI", "Duration": "50 Minute" }

}
```

✓ Step 6: Removing an Entry From the Collection[D- Delete]

Conclusion: Successfully Performed and Implemented the CRUD Operation Using MongoDB.