

### CRUD Operations:-

```

db.createCollection("mylab")
{ "ok": 1 }
> db.mylab.insertOne({item: "canvas", qty: 100, tags: ["cotton"], size: {h: 28, w: 35.5, uom: "cm"}}, {"acknowledged": true})
"insertedId": ObjectId("627d13acc73990c074e6397c")
{
  > db.mylab.find({item: "canvas"})
  {
    "_id": ObjectId("627d13acc73990c074e6397c"), "item": "canvas", "qty": 100, "tags": ["cotton"], "size": {"h": 28, "w": 35.5, "uom": "cm"}}
  {"acknowledged": true,
   "insertedIds": [
     ObjectId("627d1589c73990c074e6397d"),
     ObjectId("627d1598c73990c074e6397e"),
     ObjectId("627d1598c73990c074e6397f")]
  }
  > db.mylab.find({item: "canvas", qty: 100})
  {
    "_id": ObjectId("627d13acc73990c074e6397c"), "item": "canvas", "qty": 100}
  {"_id": ObjectId("627d1598c73990c074e6397d"), "item": "mousepad", "qty": 25}
  > db.mylab.find({item: "canvas", qty: 100}).pretty()
  {
    "_id": ObjectId("627d13acc73990c074e6397c"),
    "item": "canvas", "qty": 100
  }
}

```

### TASK 10:-

#### CRUD OPERATIONS IN DOCUMENT DATABASES

Aim:- To perform mongoose using NPM design on Mongo DB designing document database and performing CRUD operations like creating, inserting, querying, finding and removing operations.

#### Steps:-

Step 1: Install mongo db using following link  
<https://www.mongodb.com/tarball/community>

Step 2: Install mongosh using the below link.  
<https://www.mongodb.com/docs/mongodb-shell/#download-and-install-mongosh>.

Step 3: To add the mongo DB shell binary's location to your PATH environment variable:  
 open the control panel.  
 In the system variables section, select path and click edit.

click New and add the filepath to your mongosh binary. If your path is configured correctly a list of valid commands displays.

Step 4: Open mongo shell up from C:\Program Files\mongoDB\Server\bin\mongod.exe.

Steps:- Type the CRUD (CREATE READ UPDATE DELETE) COMMANDS GIVEN IN TEXT FILE.

```

    "w": 35.5,
    "uom": "cm"
    > db.mylab.deleteOne({item: "journal"})
    > db.mylab.find({item: "journal"}, {pretty: 1})
    {
      "_id": ObjectId("627d13aace73990c07466397d"),
      "item": "canvash",
      "qty": 100
    }
    > db.mylab.insertOne({
        "_id": ObjectId("627d1598c73990c074e6397d"),
        "item": "journal",
        "qty": 28
      })
    > db.mylab.insertOne({
        "_id": ObjectId("627d1598c73990c074e6397e"),
        "item": "mat",
        "qty": 85
      })
    > db.mylab.insertOne({
        "_id": ObjectId("627d1598c73990c074e6397f"),
        "item": "mousepad",
        "qty": 125
      })
  
```

VELTECH	
EX No.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVAVOCE (3)	3
RECORD (4)	4
TOTAL (15)	15
SIGN WITH DATE	8

Result: - The implementation of CRUD operations like creating, inserting, finding and removing operations using mongoDB is successfully executed.