Task: 10 CRUD operations in document database
Date: 14/10/25

Aim: To Perform Mangoose using NPM design on MongoDB designing document database and performing CRUD operations like creating, inserting, querying, finding and removing operations

Steps:

step 1: install Mango db using following link.
https://www.Mangodb.com/try/download/community.

Step 2: install Mangosh using the below link.
https://www.Mangodb.com/does/Mangodb-shell#download-and-install-mangosh.

step 3: To add the MangoDB shell binary's location to your Path enviroment variable
open the control panel.
click advanced System Settings. The System Properties modal displays.
click environmental variables.
In the System variable section, Select Path and Click Edit. the edit environment variable madal displays. click New and add the filepath to your mongosh binary.
click ok to confirm your changes. on each other modal, click ok to confirm your changes.
To confirm that your path environment variable is correctly configured to ring mongosh, open a command promt and enter the mongosh --help command.

step1: open mango shell 4.0 from c:\Programfiles\mangoDBserver\bin\mongod.exe

steps: Type the CRUD(CREATE READ UPDATE DELETE) COMMONDS GIVEN IN TEXT FILE.

CRUD Operations

db.create collection("mylab")

{"ok":1}

>db.mylab.InsertOne({item:"canvas", qty:100, tags:
["cotton"], size:{h:28, w:35.5, uom:"cm"}})

{
"acknowledged": true,
"insertedId": objectId("627d13ace73996c074e6397e")
}

>db.mylab.find({item:"canvas"})

{"_id": objectId("627d13acc73900c074e6397c"), "item":
"canvas", "qty": 100, "tags": ["cotton"], "size": {"h": 28,
"w": 35.5, "uom": "cm"}}

>
db.mylab.insertMany([{item:"journal", qty:25, tags:
["blank", "red"], size: {h:14, w:21, uom:"cm"}}, {item:"mat",
qty:85, tags: ["gray"], size: {h:27.9, w:35.5, uom:"cm"}},
{item:"mousepad", qty:25, tags: ["gel", "blue"], size:
{h:19, w:22.85, uom:"cm"}}])

{
"acknowledged": true,
"InsertedIds": [
objectId("627d1598c73990c074e6397d"),
objectId("627d1598c73996c074e6397e"),
objectId("627d1598c73996c074e6397f")
]

}
>db.mylab.find({},{item:1,qty:1})
{"_id":ObjectId("627d13acc73990c074e6377c"),"item":
"canvas","qty":100}
{"_id":ObjectId("627d1598c73990c074e6377d"),"item":
"journal","qty":25}
{"_id":ObjectId("627d1598c73900c074e6377e"),"item":
"mat","qty":85}
{"_id":ObjectId("627d1598c73900c74e6377f"),"item":
"mousepad","qty":25}
>db.mylab.find({},{item:1,qty:1}).pretty()
{
"_id":ObjectId("627d13acc73990c074e6377c"),
"item":"canvas",
"qty":100
}
{
"_id":ObjectId("627d1598c73906c074e6377e"),"item":
"mat","qty":85}
{
"_id":ObjectId("627d1598c73990c074e6377f")
"item":"mousepad",
"qty":25
}
>db.mylab.find({item:"canvas"}).pretty().sort({item:-1})
{
"_id":ObjectId("627d13acc73990c074e6377c"),
"item":"canvas",
"qty":100
"tags":[

```
"cotton"
        ],
"size": {
"h": 28,
"w": 35.5,
"uom": "cm"
    }
]
>db.mylab.deleteOne({item:"journal"})
:::
>db.mylab.find({},{item:1,qty:1}).pretty()
{
"_id": ObjectId("627d130c73990c074e6397c"),
"item": "canvas",
"qty": 100
}
{
"_id": ObjectId("627d1598c73990c074e6397d"),
"item": "journal",
"qty": 25
}
{"_id": ObjectId("627d1598c73990c074e6397e"), "item":
"mat", "qty": 85 }
```

VEL TECH - CSE	
EX NO.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	

Result: The implementation of CRUD operation Creating, inserting, finding and removing operations using MongoDB is Successfully executed.