TASK :10 - CRUD OPERATIONS IN DOCUMENT DATABASES Date 10/9/25

AIM:

To perform Mongodb using NPM function or MongoDB designing document database and performing CRUD operation like creating, inserting, querying finding and removing operation.

STEPS:

Step1) install mongo db using following link
https://www.mongodb.com/try/download/community.

step2) install mongosh using the below link
https://www.mongodb.com/docs/mongodb-shell/install/#download-and-install-mongosh.

Step3) To add the Mongo DB shell binary locations to your path environment variable:

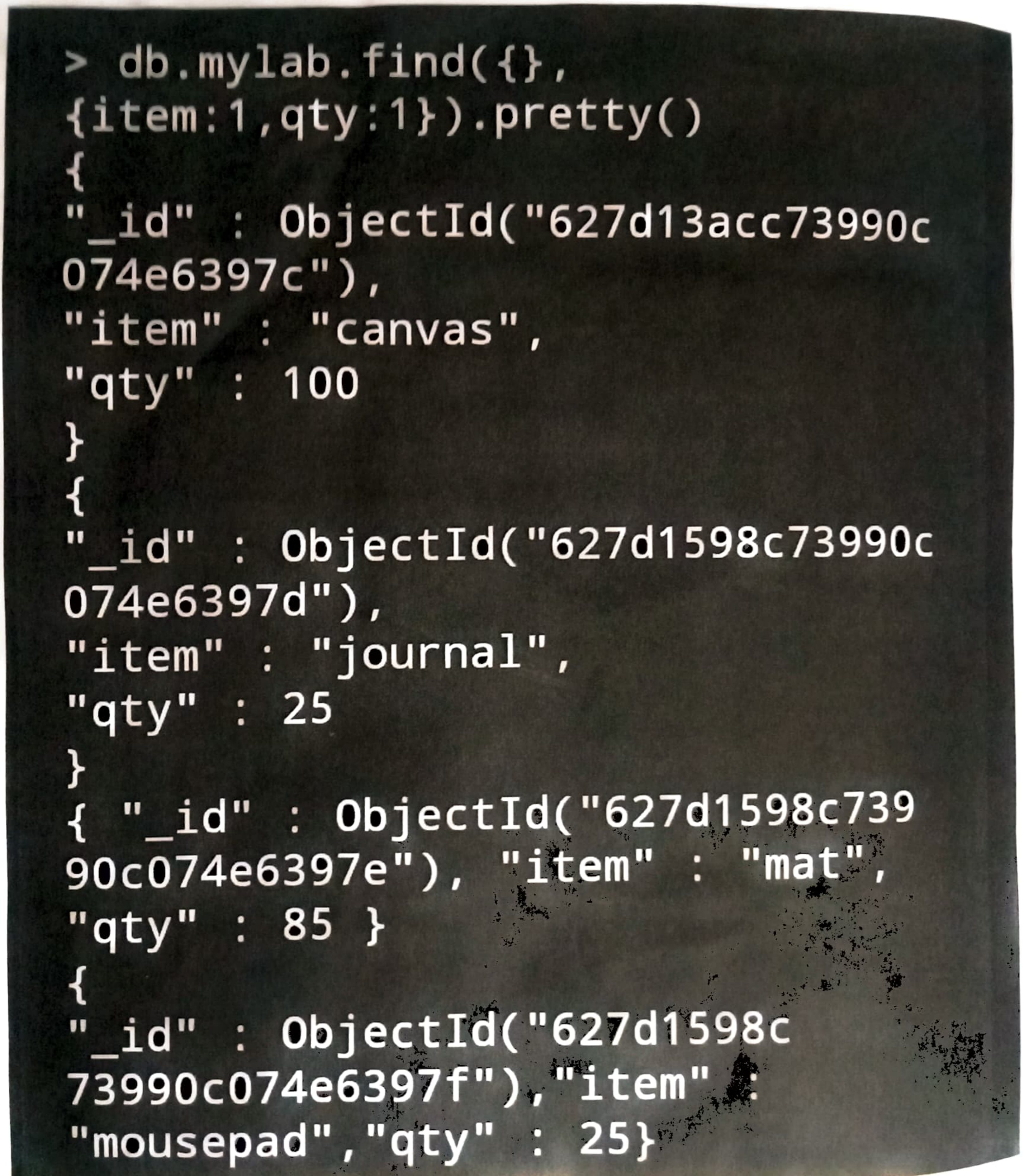
open the control panel.

In the System and Security category click System.

In the System and Security category, click System

click advanced system settings the System properties modal displays

click Environment Variable



```
> db.mylab.find({},
{item:1,qty:1}).pretty()
{
"_id" : ObjectId("627d13acc73990c
074e6397c"),
"item" : "canvas",
"qty" : 100
}
{
"_id" : ObjectId("627d1598c73990c
074e6397d"),
"item" : "journal",
"qty" : 25
}
{ "_id" : ObjectId("627d1598c739
90c074e6397e"), "item" : "mat",
"qty" : 85 }
{
"_id" : ObjectId("627d1598c
73990c074e6397f"),"item" :
"mousepad","qty" : 25}
```

In the System variables section, select path and click Edit. The edit environmental variable modal displays.

click New and add the file path to your mongosh binary

click ok to confirm your changes. on each other modal, click ok to confirm your changes.

your PATH is configured correctly, a list of valid commands displays.

CRUD OPERATIONS

```
db.create collection ("mylab")
{"ok":1}
>db.mylab.insert one {{items:"canvas", qty:
 100, tags:["cotton"], size:{h:28, w:35.5, uom:
 "cm"}})
 {
"acknowledged":true
"insertedId": objectId ("627d130cc73990
                    c074c6397c")

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

{"_id": objectId("627d130cc73990c07
4c6397c"), "item": "canvas", "qty":100,
 "tags":["cotton"], "size":{"h"
:28, "w":35.5, "uom":"cm"}}
```

json

```
{ "_id" : ObjectId("627d13acc
73990c074e6397c"), "item" :
"canvas", "qty" : 100, "tags" :
[ "cotton" ], "size" : { "h" :
28, "w" : 35.5, "uom" : "cm" } }
```

```
[illegible] 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:"mouse
pad", qty: 25, tags: ["gel", "blue"]], size: {h:
    19, 22.85, uom:"cm"}}])
{
"acknowledged": true,
  "insertedIds": [
        ObjectId("627d1598c73990c074e
                 ~~[illegible]~~6397d")
        ObjectId("627d1598c73990c074e
                 6397e"),
        ObjectId("627d1598c73990c074
                 e6397f")
  ]
}
> db.mylab.find({}, {item:1, qty:1}).pretty()
{
"_id": ObjectId("627d13acc73990c074e63
                 97c"),
 "item": "canvas",
 "qty": 100
}
{
"_id": ObjectId("627d1598c73990c074e6
                 397d"),
 "item": "journal",
 "qty": 25
}
{"_id": ObjectId("627d1598c73990c0
       74e6397e"), "item": "mat", "qty": 85}
```

```
{
"_id": object Id ("627d1598c73990c74c6397ff"),
  "item": "mouse pad",
    "qty": 25
 }
>db.mylab.find({item:"canvas"}).pretty().
                      Sort ({item:-1})
   {
 "_id": object Id ("627d13acc73990c074e6397
                          c"),
        "item": "canvas",
        "qty": 100,
        "tags": [
          "cotton"
            ],
          "size": {
           "h": 28,
        "w": 35.5,
        "uom": "cm"
          }
      }
>db.mylab.delete one ({item:"journal"})

  ...

>db.mylab.find({},{item:1,qty:1}).
                                    Pretty()
   {
  "_id": object Id("627d13acc 73990c0
                   74e6397c"),
  "item": "canvas",
  "qty" : 100
   }
   {
  "_id": object Id ("627d1598c73990
                         c074c6397d"),
"item" : "journal",
 "qty" : 25
}
{"_id" : objectId("621d1598c73990c074
                   e6397d"), "item" : "mat",
                   "qty" : 85}
 {
 "_id" : objectId("627d1598c73990c074cd3
                   a9f"), "item" : "mouse pad",
                   "qty" : 15}
```

Result:

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