TASK-10:- CRUD OPERATIONS IN DOCUMENT DATABASE

Aim:- To perform manager using NPxx design on mangoDB
designing document database and performing CRUD
operation like creating, inserting, querying finding and
removing operation.

STEP 1:

step 1) Install Mango db using following link.
https:- //www. motgod b.com/try 1 downod / community.
step 2) Install mongorh using the below link
https://www.mongodb.coml docs f mongod b.
stall # download and -install -mongosh.
step 3:- To add the mango DB stell binary's locations to
your path mvironment.

variable:-
open the control panel→ .
In the system and security categooy click system.
In the system and security category, d click system.
click Advanced system settings . The system properties
modal displays.
click environment variables.
In the system variables section, select path and click
edit the Edit environmental variable model displays.
click New and add the file path to your mongosh binary
click ok to confirm your changes on each other model,
click ok to confiration your changes.
If your PATH is configured correctly, à list of
valid commands displays.

CRUD OPERATIONS
db. create collection ("My lab")

{"ok": 7}

>db. mylab insert con {{ items: "canvas", atto
loe, tags: ["cotton"], size: {h:z8, w: 3SS,von"
(m"33)
{

```
> 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}
```

```
"acknowledged": true,
"inserted Id"_object Id ("627d13acc73990C074e63
}
>db.mylab.find {item: "canuas"}}
{"_id": object Id ("627d13acc73990c074e6397e"),
"item": "canvas", "qty"_100, "tags": ["cotton"],
"size": {"%": 28, "w": 35.5, (com"! "cm"}}

>
db-mylab.insert many [[{item:"journal} qty:25 tags
: ["blank", "red"], size: {h:14w:21, won:"cun"}
}. {item: "mat", qty: 85, tags: ("gray"], size:
{n:27.9, w:35 s. vom:"cm"}}. {item: "move
pad".qty:25. tags: ["gel", "blue"], six:{h;
19.22.85, vom:"cm"}}]]

  {
  "lacknowledged", true,
"case Inserted Ids"; [
    object Id ("627d1598C73990C074C
                                  6397d")
    object Id ("627d1598c73990 C074C6397)
    object Id ("627d1598c73990c074C63978")

    ]

}
>db. my lab find ({}, {item: ligty: I }] - pretty()
{
"_id": object Id "b27d13acc73990c074eb397c")
    "item": "convas",
    "qty": 100

}
  {
    "_id": object Id C"627d1598 C73990C074e6
                            397d"),
    "item": "journal"
```

json

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

```
"qty": 100
}

{
  "_id": object Id ("627d1598c73990co74e6397d"),
    "item" : "Journal"),
      "qty": 25
}

{"_id": object Id ("627d1598c73990co74e6397e")
, "item": "mat", "qty", 8].

{
  "_id": object Id ("627d1598c73990c7hc74c63978"),
    "item": "mouse pad",
      "qty": 25
}

> db.mylab.find ({item: "canvos"}).pretty().
                    sort ({item: -1})

{
  "_id": object Id ("627d13acc73990co74e63977c")
    "item": "convas",
      "qty": 100,
      "tags": [
        "cotton"
      ],
      "size": {
        "n": 28,
        "w": 355,
        "vom": "cm"
      }
}

> db.mylab.delete one ({item: "Journal"}

> db.mylab.find ({}, {item: 1, qty: 7}) pretty()

{
  "_id": object Id ("627d13acc73990co74e63977c"
    "item": "canvas",
```

```
  "qty": 100
}

{
  "_id": object Id ("627d15980c73990c074e6397d"),
  "item": "journal",
  "qty": 25
}

{ "_id": object Id ("627d1598c73990c074e6397e"),
  "item": "mat", "qty": 85 }

{
  "_id": object Id ("627d1598c73990c074e63af"),
  "item": "Mouse Pad", "qty": 25 }
```

<u>Result</u>:- the implementation of CRUD operations like creating inserting, finding and removing operations using mongoDB is successfully executed.