```
LAB-9:
       Part - A:
       1. Retrieve/Display every document of Deposit collection.
       → use BANK INFO
       → db.createCollection("Deposit")
       → db.Deposit.insertMany([
{"ACTNO": 101,"CNAME": "ANIL","BNAME": "VRCE","AMOUNT": 1000,"ADATE": "1995-03-01"},
{"ACTNO": 102,"CNAME": "SUNIL",BNAME": "AJNI","AMOUNT": 5000,"ADATE": "1996-01-04"},
{"ACTNO": 103,"CNAME": "MEHUL","BNAME": "KAROLBAGH","AMOUNT": 3500,"ADATE": "1995-11-
17"},
{"ACTNO": 104, "CNAME": "MADHURI", "BNAME": "CHANDI", "AMOUNT": 1200, "ADATE": "1995-12-
{"ACTNO": 105, "CNAME": "PRMOD", "BNAME": "M.G. ROAD", "AMOUNT": 3000, "ADATE": "1996-03-
27"},
{"ACTNO": 106, "CNAME": "SANDIP", "BNAME": "ANDHERI", "AMOUNT": 2000, "ADATE": "1996-03-
31"},
{"ACTNO": 107, "CNAME": "SHIVANI", "BNAME": "VIRAR", "AMOUNT": 1000, "ADATE": "1995-09-05"},
{"ACTNO": 108,"CNAME": "KRANTI","BNAME": "NEHRU PLACE","AMOUNT": 5000,"ADATE": "1995-
07-02"}
       → db.Deposit.find()
       2. Display only one document of Deposit collection. (Use: findOne())
       → db.Deposit.findOne()
       3. Insert following document into Deposit collection. (Use: insertOne())
       109 KIRTI VIRAR 3000 3-5-97
```

→ db.Deposit.insertOne({ ACTNO : 109 , CNAME : 'KIRTI' , BNAME : 'VIRAR' , AMOUNT :

3000, ADATE: '1997-05-03' })

])

- 4. Insert following documents into Deposit collection. (Use: insertMany())
- 110 MITALI ANDHERI 4500 4-9-95
- 111 RAJIV NEHRU PLACE 7000 2-10-98
- → db.Deposit.insertOne([ { ACTNO : 110 , CNAME : 'MITALI' , BNAME : 'ANDHERI' , AMOUNT : 4500 , ADATE : '1995-09-04' } , { ACTNO : 111 , CNAME : 'RAJIV' , BNAME : 'NEHRU PLACE' , AMOUNT : 7000 , ADATE : '1998-10-02' } ])
- 5. Display all the documents of 'VIRAR' branch from Deposit collection.
- → db.Deposit.find({ BNAME : 'VIRAR' })
- 6. Display all the documents of Deposit collection whose amount is between 3000 and 5000.
- → db.Deposit.find({ AMOUNT : {\$gt : 3000 , \$lt : 5000} })
- 7. Display all the documents of Deposit collection whose amount is greater than 2000 and branch is VIRAR.
- → db.Deposit.find({ AMOUNT : {\$gt : 2000} , BNAME : 'VIRAR' })
- 8. Display all the documents with CNAME, BNAME and AMOUNT fields from Deposit collection.
- → db.Deposit.find({}, { \_id:0, CNAME:1, BNAME:1, AMOUNT:1}).forEach(printjson)
- 9. Display all the documents of Deposit collection on ascending order by CNAME.
- → db.Deposit.find().sort({ CNAME : 1 })
- 10. Display all the documents of Deposit collection on descending order by BNAME.
- → db.Deposit.find().sort({ BNAME : -1 })
- 11. Display all the documents of Deposit collection on ascending order by ACTNO and descending order by AMOUNT.
- → db.Deposit.find().sort({ ACTNO : 1 , AMOUNT : -1 })
- 12. Display only two documents of Deposit collection.
- → db.Deposit.find().limit(2)

- 13. Display 3rd document of Deposit collection.
- → db.Depsoit.find().skip(2).limit(1)
- 14. Display 6th and 7th documents of Deposit collection.
- → db.Depsoit.find().skip(5).limit(2)
- 15. Display the count of documents in Deposit collection.
- → db.Deposit.countDocuments()

## Part-B:

- 1. Insert following documents into "Student" collection. (Use: insertMany())
  - → use Darshan
- 2. Display all documents of "Student" collection.
  - → db.Student.find()
- 3. Display all documents of "Student" collection whose age is 30.
  - → db.Student.find({ age : {\$eq : 30} })
- 4. Display all documents of "Student" collection whose age is greater than 25.
  - → db.Student.find({ age : {\$gt : 25} })
- 5. Display all documents of "Student" collection whose name is "John" and age is 30.
  - → db.Student.find({ name : 'John' , age : 30 })

- 6. Display all documents of "Student" collection whose age is not equal to 25.
  - → db.Student.find({ age : {\$ne : 25} })
- 7. Display all documents of "Student" collection whose age is equal to 25 or 30 or 35. (using \$or as well as using \$in).

```
→ db.Student.find({ $or : [ {age : 25} , {age:30} , {age:35} ] })→ db.Student.find({ age : { $in : [25 , 30 , 35] } })
```

- 8. Display all documents of "Student" collection whose name is "John" or age is 30.
  - → db.Student.find({ \$or : [ {name : 'John'} , {age : 30} ] })
- 9. Display all documents of "Student" collection whose name is "John" and city is New York.
  - → db.Student.find({ \$and : [ {name : 'John'} , {city : 'New York'} ] })
- 10. Display name and age of students from "Student" collection whose name is "John" and city is New York.
  - → db.Student.find( { \$and : [ {name : 'John'} , {city : 'New York'} ] } , { \_id : 0 , name : 1 , age : 1 } )

Part – C:

1. Display name of students from "Student" collection whose age is between to 25 and 35 and sort output by age in ascending order.

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→ db.Student.find( { age: { $gte : 25 , $lte : 35 } } ,
 {_id : 0 , name : 1 }).sort( { age : 1 } ).forEach(printjson)
```

- 2. Display all documents of "Student" collection and sort all the documents by name in ascending order and then by age in descending.
  - → db.Student.find().sort({ name : 1 , age : -1 })
- 3. Display first five documents of "Student" collection.
  - → db.Student.find().limit(5)

- 4. Display fourth and fifth documents of "Student" collection.
  - → db.Student.find().skip(3).limit(2)
- 5. Display the name of oldest student from "Student" collection.
  - → db.Student.find({} , { \_id : 0 , name : 1 }).sort({ age : -1 }).limit(1).forEach(printjson)
- 6. Display all documents of "Student" collection in such a way that skip the first 2 documents and return the rest documents.
  - → db.Student.find().skip(2)