

LAB ASSIGNMENT - 1

DATE: 05/01/2026

Name:- Snigdha Sucharita Kar

RollNo: UG/02/BTCSEAIML/2023/075

RegNo: AU/2023/0010993

Section :'E'

Q1. Create a database named **collegeDB** and switch to it.

```
test> use collegeDB
switched to db collegeDB
```

Q2. Create a collection named **students** in the collegeDB database.

```
collegeDB> db.createCollection("Students")
{ ok: 1 }
```

Q3. Insert **one document** into the students collection with the following fields:

- name
- rollNo
- department
- age

```
collegeDB> db.Students.insertOne({name:"snigdha",rollNO:075,department:"CSE AIML",age:19})
{
  acknowledged: true,
  insertedId: ObjectId('695c91ce13c8dfc7c31e2621')
}
```

Q4. Insert **four more documents** into the students collection with different values.

```
collegeDB> db.Students.insertMany([{"name": "Chayan", rollNo:020,department: "CSE CSE",age:21}, {"name": "Shreya", rollNo:003,department: "CSE CSE",age:20}, {"name": "Arindam", rollNo:002,department: "CSE CSE",age:22}, {"name": "Ashwan", rollNo:078,department: "CSE AIML",age:22}])
{
  acknowledged: true,
  insertedIds: [
    "0": ObjectId('695c976113c8dfc7c31e2622'),
    "1": ObjectId('695c976113c8dfc7c31e2623'),
    "2": ObjectId('695c976113c8dfc7c31e2624'),
    "3": ObjectId('695c976113c8dfc7c31e2625')
  ]
}
```

Q5. Display **all documents** present in the students collection.

```
'collegeDB> db.Students.find()
[
  {
    _id: ObjectId('695c91ce13c8dfc7c31e2621'),
    name: 'Snigdha',
    rollNO: 61,
    department: 'CSE AIML',
    age: 19
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2622'),
    name: 'Chayan',
    rollNO: 16,
    department: 'CSE CSF',
    age: 21
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2623'),
    name: 'Shreya',
    rollNO: 3,
    department: 'CSE CSF',
    age: 16
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2624'),
    name: 'Arindam',
    rollNO: 2,
    department: 'CSE CSF',
    age: 22
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2625'),
    name: 'Ashwani',
    rollNO: 78,
    department: 'CSE AIML',
    age: 22
  }
]
```

Q6. Display only those students who belong to the **CSE department**.

```
collegeDB> db.students.find({department:'CSE AIML'})
[  
  {  
    _id: ObjectId('695c91ce13c8dfc7c31e2621'),  
    name: 'Snigdha',  
    rollNO: 61,  
    department: 'CSE AIML',  
    age: 19  
  },  
  {  
    _id: ObjectId('695c976113c8dfc7c31e2625'),  
    name: 'Ashwani',  
    rollNO: 78,  
    department: 'CSE AIML',  
    age: 22  
  }  
]
```

Q7. Update the age of one student (any one) to a new value.

```
collegeDB> db.students.updateOne({rollNO:075},{$set:{age:021}})  
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 0,  
  upsertedCount: 0  
}
```

Q8. Delete **one document** from the students collection using any condition

```
collegeDB> ■  
{ acknowledged: true, deletedCount: 1 }  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```