

ROLLNO: 24EE058

TASK1: Create a **studentDB** database, add **5 collections**, insert **3 records using insertOne()**, and insert **6 records using insertMany()**, all with fields name, class, rollno, and dept.

```
use studentDB
```

```
db.createCollection("students")
```

```
db.createCollection("classA")
```

```
db.createCollection("library")
```

```
db.createCollection("departments")
```

```
db.createCollection("sports")
```

```
db.students.insertOne({ name: "Rahul", class: "2nd Year", rollno: 101, dept: "EEE" })
```

```
db.classA.insertOne({ name: "Sneha", class: "1st Year", rollno: 102, dept: "ECE" })
```

```
db.library.insertOne({ name: "Amit", class: "3rd Year", rollno: 103, dept: "CSE" })
```

```
db.students.insertMany([
```

```
  { name: "Kiran", class: "2nd Year", rollno: 104, dept: "MECH" },
```

```
  { name: "Lakshmi", class: "1st Year", rollno: 105, dept: "IT" },
```

```
  { name: "Vijay", class: "3rd Year", rollno: 106, dept: "EEE" },
```

```
  { name: "Deepa", class: "2nd Year", rollno: 107, dept: "CSE" },
```

```
  { name: "Manoj", class: "4th Year", rollno: 108, dept: "CIVIL" },
```

```
  { name: "Anitha", class: "3rd Year", rollno: 109, dept: "ECE" }
```

```
])
```

TASK2: Create a database **studentDB** and a collection **students**. Insert multiple student records with fields **name**, **age**, **dept**. Perform the following operations: update John's department, add a new student Robert (age 35), delete a student with age > 35, update all students with age > 18 to 20, add a **hobbies** array to all students, and display the final collection.

```
use studentDB
```

```
db.createCollection("students")
```

```
db.students.insertMany([
    { name: "John", age: 17, dept: "EEE" },
    { name: "Jane", age: 19, dept: "CSE" },
    { name: "Alex", age: 22, dept: "MECH" },
    { name: "Maria", age: 36, dept: "ECE" }
])
```

```
db.students.find()
```

```
db.students.updateOne(
    { name: "John" },
    { $set: { dept: "IT" } }
)
```

```
db.students.insertOne({ name: "Robert", age: 35, dept: "CSE" })
```

```
db.students.deleteOne({ age: { $gt: 35 } })
```

```
db.students.updateMany(  
  { age: { $gt: 18 } },  
  { $set: { age: 20 } }  
)
```

```
db.students.updateMany(  
  {},  
  { $set: { hobbies: ["reading", "sports"] } }  
)
```

```
db.students.find()
```