**ASSIGNMENT 4  
  
mongod --dbpath=data**

**cd (path (link of the folder))**

**Mongosh**

**{run the suitable commands for a specific operation}**

**Insert a document into a collection**:

db.students.insertOne({ name: "Rudrakshi", age: 22, grade: "A" });

**Find all documents in a collection**:

db.students.find();

**Find documents with specific criteria** (students with an age greater than 18):----------

db.students.find({ age: { $gt: 122 } });

**Find documents with specific criteria** (students with an age greater than 18 and less than ):-------------

db.students.find({ age: { $gt: 22, $lt: 23 } });

**Update a document** (update the grade of a student named "John" to "A"): -----

db.students.updateOne({ name: "Rohan" }, { $set: { grade: "A" } });

**Delete a document** (delete a document where the name is "Emily"):-------

db.students.deleteOne({ name: "Kulvant singh" });

**Advanced Operations**

**Count the number of documents** (students with a grade of "B"):------

db.students.countDocuments({ grade: "B" });

**Use projection in a query** (retrieve only the name and grade fields of all documents): ------

db.students.find({}, { name: 1, grade: 1, \_id: 0 });

**Sort documents** (find all students and sort them by age in descending order): ---------

db.students.find().sort({ age: -1 });

ASSIGNMENT 5

db.students.insertOne({ name: "Rudra", age: 27, grade: "A" }, \_id:"rudra@gmail.com");

db.students.find({ grade: { $ne: "A" } }, { name: 1, grade: 1, \_id: 0 });

db.students.find({ age: { $lt: 18 } }, { name: 1, age: 1, class: 1, \_id: 0 });

db.employees.find({ experience: { $gt: 10 } }, { name: 1, department: 1, \_id: 0 });

db.courses.find({ duration: { $gte: 12 } }, { course\_name: 1, instructor: 1, \_id: 0 });

db.inventory.find({ price: { $lte: 100 } }, { item\_name: 1, price: 1, \_id: 0 });

db.students.find({ name: { $in: ["rudra", "rohan", "jay"] } }, { name: 1, roll: 1, \_id: 0 });