Installation

Procedure:

- Download MongoDB Community Server (version 5.0.9) from https://www.mongodb.com/try/download/community
- Install **MongoDB** Complete Setup along with MongoDB Compass

  MongoDB Compass is a powerful GUI for querying, aggregating, and analyzing your MongoDB data in a visual environment.

  (https://downloads.mongodb.com/compass/mongodb-compass-1.32.4-win32-x64.exe)
- Working with MongoShell
  - Open Command Prompt window
  - Go to C:\Program Files\MongoDB\Server\5.0\bin
  - Type mongo

Set MongoDB in the windows path environment

Step 1: After successful installation, Right-click on **'This PC' or 'My Computer'.**
Choose properties

Step 2: Choose the **`advance system setting`** options

Step 3: Click on **Environment Variables** under Advance section.

Step 4: Choose **Path** value under **system variables** and click Edit button

Step 5: Now get your mongo path to your system, where your MongoDB is installed. For example, if you installed MongoDB in C drive, then it your path will be like this: **`C:\Program Files\MongoDB\Server\VERSION\bin`**

Step 6: Copy this path and enter as a new environment value on Edit environment variables page

Step 7: Now click on **OK** and close all active dialog box. Your environment is set, **restart your terminal** and now enter mongo , it will open mongo-shell.

Administering Databases:

1. Displaying a List of Databases
   - show dbs
2. Changing the Current Database
   - use mru
   - db – To check current Database

3. Creating Databases

Your created database (mru) is not present in list. To display database, you need create collection and need to insert at least one document into it.

   - db.createCollection("student")
   - show collections – To see existing Collections

4. Deleting Databases
   - db.student.drop() – To drop collection
   - db.dropDatabase() – to delete Default Database

5. Copying Databases
   - db.copyDatabase('mru', 'mru1')

6. Managing Collections
   a) Displaying a List of Collections in a Database
      - show collections
   b) Creating Collections
      - db.createCollection("student")
   c) Deleting Collections
      - db.student.drop() – To drop collection

7. Adding Documents to a Collection
   - db.student.insertOne({'name':'raju'}) – To add single document
   - db.student.insertMany([{"name":"raju"}, {"name":"rao"}]) – To add Many documents

8. Finding Documents in a Collection
   - db.student.find() – To view documents in student collection
   - db.student.findOne() – To view First Document in Student Collection
   - db.student.findOne({'name':'rao'}) – To view selected Record

9. Deleting Documents in a Collection
   - db.student.remove({'name':'rao'}) – To remove a Single Document
   - db.student.remove({}) – To remove a All Documents

10. Updating Documents in a Collection
    - db.student.update({'name':'raju'},{$set:{'name':'ram'}}) – To update first matched document

11. Quit the mongo shell
    - exit