

**Dharmsinh Desai University**  
**MCA Semester – 3 (2024-25)**  
**23MCA3001 – Advanced Web Development**

**Practical - 5**

**Prerequisite:** Perform the programs given in the Lab. manual provided during the regular classroom sessions.

1. Write appropriate commands to perform following operations in MongoDB.
  - a. Open mongod shell.
  - b. Show existing databases.
  - c. Show existing collections.
  - d. Create a database 'University' in MongoDB.
  - e. Show existing collections.
  - f. Create a collection 'Student'.
  - g. Insert following documents in 'Student'.
    - i. rno: 1, name: name1, gender:M, c-marks:80
    - ii. rno: 2, name: name2, gender:F, c-marks:35, cpp-marks:68
    - iii. rno: 3, name: name3, gender:M, c-marks:80, cpp-marks:90
    - iv. rno: 4, name: name4, gender:F, c-marks:38, cpp-marks:49
    - v. rno: 5, name: name5, gender:M, c-marks:59, cpp-marks:69, java-marks:78
    - vi. rno: 6, name: name6, gender:F, c-marks:74, cpp-marks:81, java-marks:75
    - vii. rno: 7, name: name7, gender:M, c-marks:20, cpp-marks:30, java-marks:54
    - viii. rno: 8, name: name8, gender:F, c-marks:80, cpp-marks:90, java-marks:89
    - ix. rno: 9, name: name9, gender:F, cpp-marks:9, java-marks:4
    - x. rno: 10, name: name10, gender:M, c-marks:34, cpp-marks:34, java-marks=34
  - h. show total count of documents available
  - i. show a document with a roll no. 9
  - j. show a document with a name name8
  - k. list all female gender documents
  - l. count all documents where student is male and has scored more than 70 marks in c.
  - m. list all documents where student has passed in all subjects.
  - n. Give 2 marks gracing in java.
  - o. Roll no 9 had actually scored 45, 54 and 64 marks in c, cpp and java respectively. Accordingly update document.
  - p. Give 5 marks gracing in c and java to roll no. 7.
  - q. Delete all documents missing java marks.
  - r. Update all documents missing cpp marks with 0.
  - s. Delete all documents: male or cpp marks 0.
  - t. Delete all male records.
  - u. Delete collection.
  - v. Delete database.