EDUNET FOUNDATION – Self Paced Solution Notebook

Lab 2: CRUD Operations in MongoDB

1. Create Database with name code_unnati in mongodb?

```
test> use code_unnati
switched to db code_unnati
code_unnati>
```

2. Create a collection named courses inside code_unnati database?

```
code_unnati> db.createCollection("courses")
{ ok: 1 }
code_unnati>
```

3. Insert the following data using insertOne() method?

```
{ _id: 10, course_name: 'python', hours: 10 }
```

```
code_unnati> db.courses.insertOne({_id: 10, course_name: 'python', hours: 10})
{ acknowledged: true, insertedId: 10 }
code_unnati>
```

4. Insert the following data using insertMany() method?

```
{ _id: 11, course_name: 'C++', hours: 15 },
{ _id: 12, course_name: 'java', hours: 12 }
```

```
code_unnati> db.courses.insertMany([  { _id: 11, course_name: 'C++', hours: 15 },{_id:12,
course_name:"java",hours:12}])
```

5. Print all documents inside courses collection.

```
code_unnati> db.courses.find()
[
  { _id: 10, course_name: 'python', hours: 10 },
  { _id: 11, course_name: 'C++', hours: 15 },
  { _id: 12, course_name: 'java', hours: 12 }
]
code_unnati>
```

6. Use equality operator to retrieve document where _id is 11.

```
code_unnati>  db.courses.find({"_id": { $eq: 11}})
[ { _id: 11, course_name: 'C++', hours: 15 } ]
code_unnati>
```

7. Use greater than operator to retrieve document where _id is greater than 11.

```
code_unnati> db.courses.find({"_id": { $gt: 11}}).pretty()
[ { _id: 12, course_name: 'java', hours: 12 } ]
code_unnati>
```

8. Use less than operator to retrieve document where _id is less than 11.

```
code_unnati> db.courses.find({"_id": { $lt: 11}}).pretty()
[ { _id: 10, course_name: 'python', hours: 10 } ]
code_unnati>
```

9. Use and operator to print document where _id is 11 and course_name is C++.

```
code_unnati> db.courses.find({ $and: [{"course_name": "java"}, {"_id": {$gte: 12}}]})
[ { _id: 12, course_name: 'java', hours: 12 } ]
code_unnati>
```

10. Print course name and hours of all document using Projection.

```
code_unnati> db.courses.find({},{_id:0})
[
  { course_name: 'python', hours: 10 },
  { course_name: 'C++', hours: 15 },
  { course_name: 'java', hours: 12 }
]
code_unnati>
```