MongoDB Assignment

1)Install MongoDB database server

2)Create a directory/folder to store MongoDB datafiles

3)Set necessary path environment variable

4)Startup MongoDB database

5)Connect to MongoDB database through MongoDB shell command line interface

6)View list of available databases

```
cadc> show dbs
admin     40.00 KiB
cadc      60.00 KiB
config    96.00 KiB
local     72.00 KiB
```

7)Create a new database named CDAC and connect to it

```
cadc> use cdac
switched to db cdac
```

8)View list of available collections in CDAC database

```
cdac> show collections
```

9)Create a new collection by the name of LIBRARY

```
cdac> db.createCollection("Library")
{ ok: 1 }
```

10)Insert the following document in the
LIBRARY collection:-
title:'MongoDB programming',
author:'Sameer', likes:100

```
cdac> db.createCollection("Library")
{ ok: 1 }
cdac> db.library.insert({title:'MongoDB programming',autho
r:'Sameer',likes:100   })
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('66069cffd3b8cdb4cb7b2dac')
 }
}
```

11)View the recently inserted document and note the _id field

```
cdac> db.library.find()
[
  {
    _id: ObjectId('66069cffd3b8cdb4cb7b2dac'),
    title: 'MongoDB programming',
    author: 'Sameer',
    likes: 100
  }
]
```

12)Insert another document in the LIBRARY collection as follows:-
title:'MySQL programming',
authors:['Jack','Jill'], likes:200

```
cdac> db.library.insert({title:'MySQL programming',author:
['Jack','Jill'],likes:200    })
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('66069dafd3b8cdb4cb7b2dad')
}
}
```

13)View the inserted documents

```
cdac> db.library.find()
[
  {
    _id: ObjectId('66069cffd3b8cdb4cb7b2dac'),
    title: 'MongoDB programming',
    author: 'Sameer',
    likes: 100
  },
  {
    _id: ObjectId('66069dafd3b8cdb4cb7b2dad'),
    title: 'MySQL programming',
    author: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
```

14)View only the first inserted document

```
cdac> db.library.findOne()
{
  _id: ObjectId('66069cffd3b8cdb4cb7b2dac'),
  title: 'MongoDB programming',
  author: 'Sameer',
  likes: 100
}
```

15)View the documents using the pretty() method

```
cdac> db.library.find().pretty()
[
  {
    _id: ObjectId('66069cffd3b8cdb4cb7b2dac'),
    title: 'MongoDB programming',
    author: 'Sameer',
    likes: 100
  },
  {
    _id: ObjectId('66069dafd3b8cdb4cb7b2dad'),
    title: 'MySQL programming',
    author: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
```

16)Update the document where author name Sameer and change it to Sameer Dehadrai

```
cdac> db.library.update({author:'Sammer'},{$set:{author:'Sameer Dehadra
i'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

17)Delete all documents that have 100 likes

```
cdac> db.library.remove({likes:100})
{ acknowledged: true, deletedCount: 1 }
```

18)Drop the LIBRARY collection

```
cdac> db.library.remove({likes:100})
{ acknowledged: true, deletedCount: 1 }
```

19)Drop the CDAC database

```
cdac> db.dropDatabase()
{ ok: 1, dropped: 'cdac' }
cdac>
```

20)Exit from MongoDB shell

```
cdac> .exit
sunbeam@sunbeam-HP-Notebook:~$
```

Stop MongoDB server