```
DBMSL Assignment No 9
Name: Ravindra Dayaram Bagul
Roll No: C31105
Batch:T1
                                      Output
            test> show dbs
                  admin 40.00 KiB
                  config 12.00 KiB
                  local 40.00 KiB
            test> use Articles
                  switched to db Articles
                  Articles> db.createCollection('articles')
                  { ok: 1 }
            Articles> show dbs
                  Articles 8.00 KiB
                  admin 40.00 KiB
                           60.00 KiB
                  config
                           40.00 KiB
                  local
1. Insert 5 Data:
Articles>
db.articles.insertOne({Title:'Entrepreneur', Content:'Businesses', Author:'Bhavik
Sarkhedi', Author age: 20, Dop: new Date ('2023-10-
08'), Category: 'FreeLancing', Comments: [{Name: 'XYZ', Remarks: 'Good'}, {Name: 'ABC', R
emarks:'Can be Better'}]})
      {
            acknowledged: true,
            insertedId: ObjectId("6527c74865659a592e3e2814")
      }
Articles> db.articles.insertMany([{Title:'Novelist',Content:'English
Literature', Author: 'Chetan Bhagat', Author age: 25, Dop:new Date('2023-02-
10'), Category: 'FreeLancing', Comments: [{Name: 'LMN', Remarks: 'Good'}, {Name: 'PQR', R
emarks:'Can be Better'}]},{Title:'Story
Books', Content: 'Horror', Author: 'A.B. Sharma', Author age: 30, Dop: new Date ('2023-3-
15'), Category: 'FreeLancing', Comments: [{Name:'AAA', Remarks:'Good'}, {Name:'BBB', R
emarks:'Can be Better'}]))
                    acknowledged: true,
                    insertedIds: {
                        '0': ObjectId("6527c9dc65659a592e3e2815"),
                        '1': ObjectId("6527c9dc65659a592e3e2816")
                    }
                  }
           Articles> db.articles.insertMany([{Title:'Novelist',Content:'Indian
Literature', Author: 'Anita Desai', Author age: 16, Dop: new Date('2023-05-
22'), Category: 'FreeLancing', Comments: [{Name: 'QQQ', Remarks: 'Good'}, {Name: 'PPP', R
emarks: 'Can be Better' }] }, {Title: 'The God of Small
Things', Content: 'ScreenPlays', Author: 'Arundhati Roy', Author age: 16, Dop: new
Date ('2022-4-
20'), Category: 'FreeLancing', Comments: [{Name: 'DDD', Remarks: 'Good'}, {Name: 'CCC', R
```

emarks:'Can be Better'}]))

acknowledged: true,
insertedIds: {

'0': ObjectId("6527cae665659a592e3e2817"),
'1': ObjectId("6527cae665659a592e3e2818")

}

1.2 Display all records:

```
Articles> db.articles.find().pretty()
            [
                  id: ObjectId("6527c74865659a592e3e2814"),
                 Title: 'Entrepreneur',
                 Content: 'Businesses',
                 Author: 'Bhavik Sarkhedi',
                 Author age: 20,
                 Dop: ISODate("2023-10-08T00:00:00.000Z"),
                 Category: 'FreeLancing',
                 Comments: [
                    { Name: 'XYZ', Remarks: 'Good' },
                    { Name: 'ABC', Remarks: 'Can be Better' }
                 1
              },
                  id: ObjectId("6527c9dc65659a592e3e2815"),
                 Title: 'Novelist',
                 Content: 'English Literature',
                 Author: 'Chetan Bhagat',
                 Author age: 25,
                 Dop: ISODate("2023-02-10T00:00:00.000Z"),
                 Category: 'FreeLancing',
                 Comments: [
                    { Name: 'LMN', Remarks: 'Good' },
                    { Name: 'PQR', Remarks: 'Can be Better' }
                 ]
              } ,
                  id: ObjectId("6527c9dc65659a592e3e2816"),
                 Title: 'Story Books',
                 Content: 'Horror',
                 Author: 'A.B.Sharma',
                 Author age: 30,
                 Dop: ISODate("2023-03-14T18:30:00.000Z"),
                 Category: 'FreeLancing',
                 Comments: [
                    { Name: 'AAA', Remarks: 'Good' },
                    { Name: 'BBB', Remarks: 'Can be Better' }
                 1
              } ,
                  id: ObjectId("6527cae665659a592e3e2817"),
                 Title: 'Novelist',
                 Content: 'Indian Literature',
                 Author: 'Anita Desai',
                 Author age: 16,
                 Dop: ISODate("2023-05-22T00:00:00.000Z"),
                 Category: 'FreeLancing',
                 Comments: [
                    { Name: 'QQQ', Remarks: 'Good' },
                    { Name: 'PPP', Remarks: 'Can be Better' }
                 1
              },
                  id: ObjectId("6527cae665659a592e3e2818"),
                 Title: 'The God of Small Things',
                 Content: 'ScreenPlays',
                 Author: 'Arundhati Roy',
```

```
Author_age: 16,
  Dop: ISODate("2022-04-19T18:30:00.000Z"),
  Category: 'FreeLancing',
  Comments: [
      { Name: 'DDD', Remarks: 'Good' },
      { Name: 'CCC', Remarks: 'Can be Better' }
  ]
}
```

2.Display first document found in db:

3. Display first document belonging to a certain author says "Sharma":

4. Modify the comment by certain person on a certain article:

5.1 Insert records with save method with object id:

```
Articles>
db.articles.save({ id:10, Title: 'DBMS', Content: 'MongoDB', Author: 'Prof.M.S.Agarwa
1', Author age: 30, Dop: new Date ('2023-10-
10'), Category: 'Database', Comments: [{Name: 'HHH', Remarks: 'Better'}, {Name: 'JJJ', Re
marks:'Excellent'}]});
               > db.articles.find({Title:"DBMS"}).pretty()
            " id" : 10,
            "Title": "DBMS",
            "Content" : "MongoDB",
            "Author" : "Prof.M.S.Agarwal",
            "Author_age" : 30,
            "Dop" : ISODate("2023-10-10T00:00:00Z"),
            "Category" : "Database",
            "Comments" : [
                  {
                        "Name" : "HHH",
                        "Remarks" : "Better"
                  },
                  {
                        "Name" : "JJJ",
                        "Remarks" : "Excellent"
                  },
                  {
                        "Name" : "FFF",
                        "Remarks" : "Nice"
                  }
            ]
```

5.2 Insert records with save method without object id:

6. Update a Collection with save method:

```
Articles >
db.articles.save({ id:10, Title: 'DBMS', Content: 'MySql', Author: 'Prof.M.S.Agarwal'
,Author age:25,Dop:new
                                          Date ("2023-10-
16"), Category: 'Database', Comments: [{Name: 'HHH', Remarks: 'Good'},
            {Name:'JJJ',Remarks:'Nice'}]})
            WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
            > db.articles.find({Title:'DBMS'}).pretty()
            {
                  " id" : 10,
                  "Title": "DBMS",
                  "Content" : "MySql",
                  "Author" : "Prof.M.S.Agarwal",
                  "Author age" : 25,
                  "Dop" : ISODate("2023-10-16T00:00:00Z"),
                  "Category" : "Database",
                  "Comments" : [
                        {
                              "Name" : "HHH",
                              "Remarks" : "Good"
                        },
                        {
                              "Name" : "JJJ",
                              "Remarks" : "Nice"
                        }
                  ]
            }
```

7.Add one more comment for a particular Title:

```
db.articles.update({Title:'TOC'}, {$push:{Comments:{Name:'FFF',Remarks:'Nice'}}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.articles.find({Title:'TOC'}).pretty()

{
    "_id" : ObjectId("652cd16e3110241d64b6456d"),
    "Title" : "TOC",
    "Content" : "DFA",
    "Author" : "Prof.R.R.Bathe",
    "Author_age" : 30,
    "Dop" : ISODate("2023-10-20T00:00:002"),
    "Category" : "Automata",
```

8.Delete the documents whose author age<18:

```
> db.articles.deleteMany({Author age:{$lt:18}})
{ "acknowledged" : true, "deletedCount" : 2 }
> db.articles.find().pretty()
{
      " id" : ObjectId("6528cd46a0571873b9d71186"),
      "Title": "Entrepreneur",
      "Content" : "Businesses",
      "Author" : "Bhavik Sarkhedi",
      "Author age" : 20,
      "Dop" : ISODate("2023-10-08T00:00:00Z"),
      "Category" : "FreeLancing",
      "Comments" : [
            {
                 "Name" : "XYZ",
                 "Remarks" : "Good"
            },
            {
                 "Name" : "ABC",
                 "Remarks" : "Excellent"
            }
      ]
}
{
      " id" : ObjectId("6528cee6a0571873b9d71187"),
      "Title": "Novelist",
      "Content" : "English Literature",
      "Author" : "Chetan Bhagat",
      "Author_age" : 25,
      "Dop" : ISODate("2023-02-10T00:00:00Z"),
      "Category" : "FreeLancing",
      "Comments" : [
            {
                 "Name" : "LMN",
                 "Remarks" : "Good"
            },
            {
                 "Name" : "PQR",
                 "Remarks" : "Can be Better"
            }
      1
}
{
      " id" : ObjectId("6528cee6a0571873b9d71188"),
      "Title" : "Story Books",
```

```
"Content" : "Horror",
                  "Author" : "A.B.Sharma",
                  "Author age" : 30,
                  "Dop" : ISODate("2023-03-15T00:00:00Z"),
                  "Category" : "FreeLancing",
                  "Comments" : [
                        {
                              "Name" : "AAA",
                              "Remarks" : "Good"
                        },
                        {
                              "Name" : "BBB",
                              "Remarks" : "Can be Better"
                        }
                  ]
            }
            {
                  " id" : 10,
                  "Title": "DBMS",
                  "Content" : "MySql",
                  "Author" : "Prof.M.S.Agarwal",
                  "Author age" : 25,
                  "Dop" : ISODate("2023-10-16T00:00:00Z"),
                  "Category" : "Database",
                  "Comments" : [
                        {
                              "Name" : "HHH",
                              "Remarks" : "Good"
                        },
                        {
                              "Name" : "JJJ",
                              "Remarks" : "Nice"
                        }
                  ]
            }
{
                  " id" : ObjectId("652cd16e3110241d64b6456d"),
                  "Title": "TOC",
"Content": "DFA",
                  "Author" : "Prof.R.R.Bathe",
                  "Author age" : 30,
                  "Dop" : ISODate("2023-10-20T00:00:00Z"),
                  "Category" : "Automata",
                  "Comments" : [
                              "Name" : "EEE",
                              "Remarks" : "Better"
                        },
                        {
                              "Name" : "SSS",
                              "Remarks" : "Excellent"
                        },
                        {
                              "Name" : "FFF",
                              "Remarks" : "Nice"
                        }
                  ]
            }
```

9.Remove all the documents from the collection:

```
> db.articles.deleteMany({})
{ "acknowledged" : true, "deletedCount" : 5 }
> db.articles.find().pretty()
```

10.Delete article collection:

```
> db.articles.drop()
true
> db.getCollectionNames()
[ ]
```