PRACTICE PROBLEMS

I. CREATE DATABASE IN MONGODB.

```
Current Mongosh Log ID: 660a7a36c37c4711f14ed400
Connecting to:           mongodb+srv://<credentials>@cluster0.bmxogf0.mongodb.net/?appName=mongosh+2.0.
0
Using MongoDB:           7.0.7 (API Version 1)
Using Mongosh:           2.0.0
mongosh 2.2.1 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

Atlas atlas-ztcal1-shard-0 [primary] test> use BDA_Demo
switched to db BDA_Demo
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db
BDA_Demo
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> show dbs
sample_mflix  110.22 MiB
admin         288.00 KiB
local          24.57 GiB
```

II. CRUD (CREATE, READ, UPDATE, DELETE) OPERATIONS

1. To create a collection by the name "Student". Let us take a look at the collection list prior to the creation of the new collection "Student".

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.createCollection("Student")
{ ok: 1 }
```

2.To drop a collection by the name "Student".

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.drop()
true
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo>  db.createCollection("Student")
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.insert({_id:1, StudName:"MichelleJacintha",Grade:"VII",Hobbies:"InternetSurfing"})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{ acknowledged: true, insertedIds: { '0': 1 } }
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.update({_id:3,StudName:"AryanDavid",Grade:"VII"},{$set:{Hobbies:"Skating"}},{upsert:true})
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: 3,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find({StudName:"Aryan David"})

Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find({},{StudName:1,Grade:1,_id:0});
[
  { StudName: 'MichelleJacintha', Grade: 'VII' },
  { Grade: 'VII', StudName: 'AryanDavid' }
]
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find({Grade:{$eq:'VII'}}).pretty()
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' }
]
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find({Grade:{$eq:'VII'}})
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' }
]
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find({Hobbies :{ $in: ['Chess','Skating']}}).pretty ()
[
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' }
]
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find({StudName:/^M/}).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find({StudName:/e/}).pretty()
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.count()
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
2
```

```
Atlas atlas-ztcal1-shard-0 [primary] BDA_Demo> db.Student.find().sort({StudName:-1}).pretty()
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' }
]
```