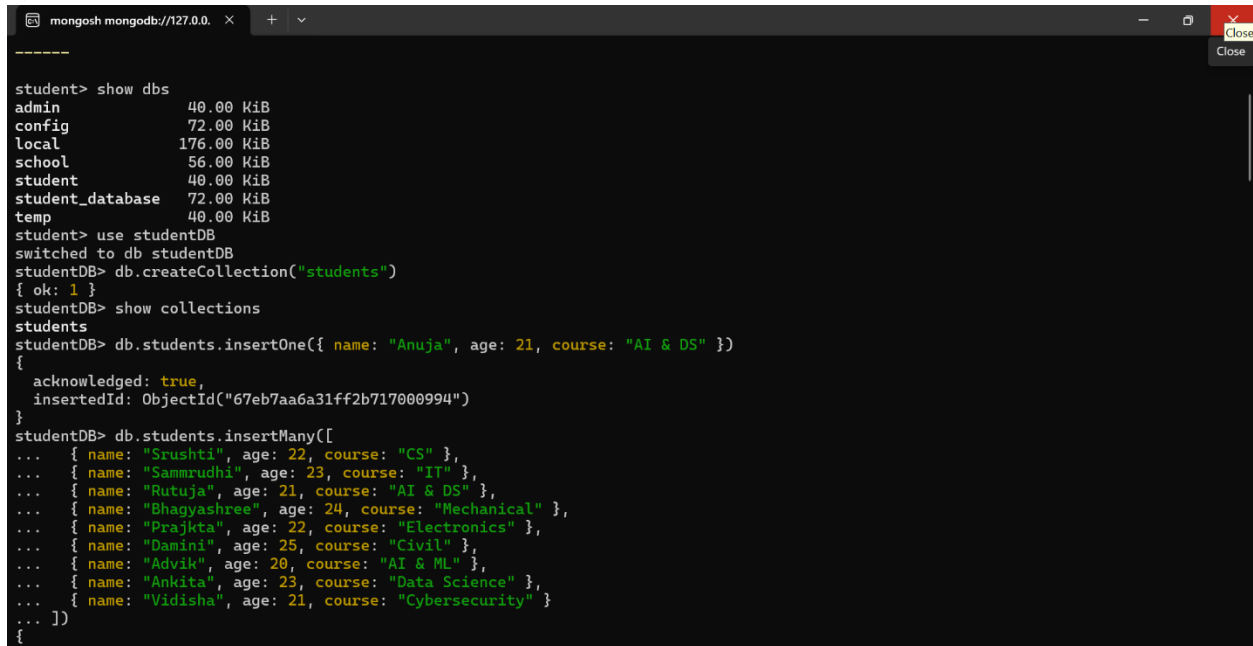BDA Assignment 4

Mongo DB: Installation and Creation of database and Collection CRUD Document: Insert, Query,Update and Delete Document.

1) show dbs
2) use studentDB

3)using collection
insert data:
 db.students.insertOne({ name: "Anuja", age: 21, course: "AI & DS" })

4) db.students.insertMany([

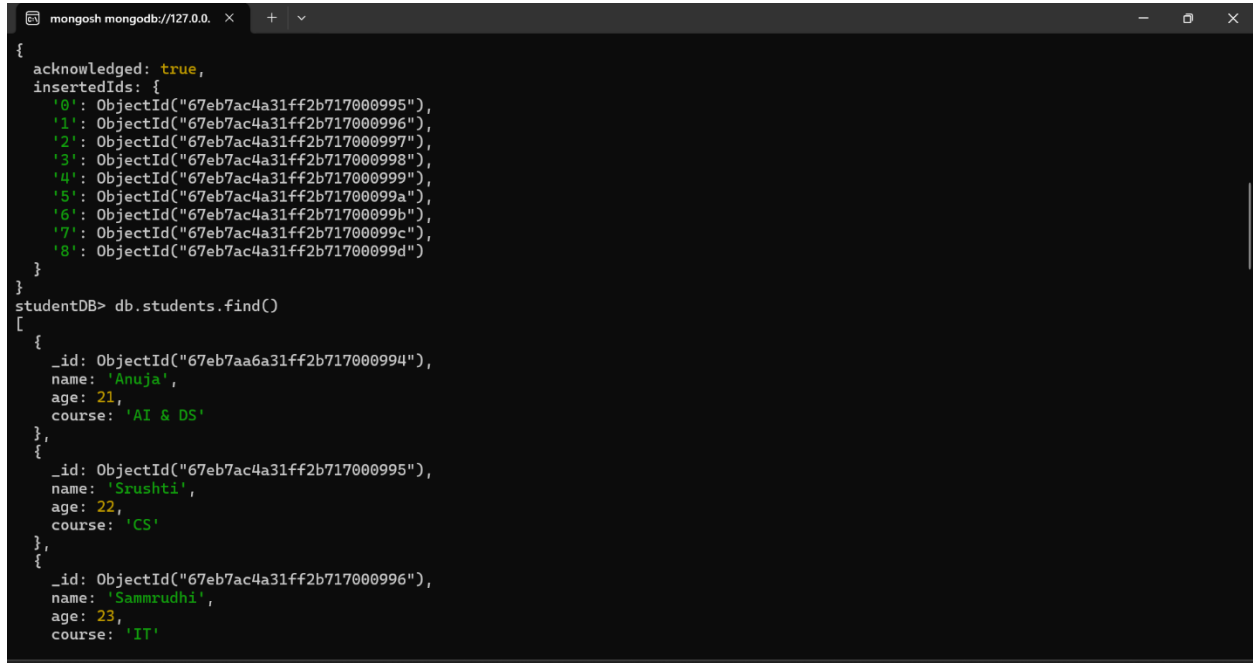 { name: "Srushti", age: 22, course: "CS" },

 { name: "Sammrudhi", age: 23, course: "IT" },

 { name: "Rutuja", age: 21, course: "AI & DS" },

 { name: "Bhagyashree", age: 24, course: "Mechanical" },

 { name: "Prajkta", age: 22, course: "Electronics" },

 { name: "Damini", age: 25, course: "Civil" },

 { name: "Advik", age: 20, course: "AI & ML" },

 { name: "Ankita", age: 23, course: "Data Science" },

{ name: "Vidisha", age: 21, course: "Cybersecurity" }

5) read operation
db.students.find()
db.students.findOne({ name: "Srushti" })

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("67eb7ac4a31ff2b717000995"),
    '1': ObjectId("67eb7ac4a31ff2b717000996"),
    '2': ObjectId("67eb7ac4a31ff2b717000997"),
    '3': ObjectId("67eb7ac4a31ff2b717000998"),
    '4': ObjectId("67eb7ac4a31ff2b717000999"),
    '5': ObjectId("67eb7ac4a31ff2b71700099a"),
    '6': ObjectId("67eb7ac4a31ff2b71700099b"),
    '7': ObjectId("67eb7ac4a31ff2b71700099c"),
    '8': ObjectId("67eb7ac4a31ff2b71700099d")
  }
}
studentDB> db.students.find()
[
  {
    _id: ObjectId("67eb7aa6a31ff2b717000994"),
    name: 'Anuja',
    age: 21,
    course: 'AI & DS'
  },
  {
    _id: ObjectId("67eb7ac4a31ff2b717000995"),
    name: 'Srushti',
    age: 22,
    course: 'CS'
  },
  {
    _id: ObjectId("67eb7ac4a31ff2b717000996"),
    name: 'Sammrudhi',
    age: 23,
    course: 'IT'
```

6)Update Document
db.students.updateOne(

 { name: "Anuja" },
{ $set: { age: 22, course: "AI & ML" } }

```
]
studentDB> db.students.findOne({ name: "Srushti" })
{
  _id: ObjectId("67eb7ac4a31ff2b717000995"),
  name: 'Srushti',
  age: 22,
  course: 'CS'
}
studentDB> db.students.updateOne(
...    { name: "Anuja" },
...    { $set: { age: 22, course: "AI & ML" } }
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
studentDB> db.students.findOne({ name: "Anuja" })
{
  _id: ObjectId("67eb7aa6a31ff2b717000994"),
  name: 'Anuja',
  age: 22,
  course: 'AI & ML'
}
studentDB> db.students.deleteOne({ name: "Vidisha" })
{ acknowledged: true, deletedCount: 1 }
studentDB> db.students.find()
[
  {
    _id: ObjectId("67eb7aa6a31ff2b717000994"),
    name: 'Anuja',
```

7) Delete Document
db.students.deleteOne({ name: "Vidisha" })

```
    _id: ObjectId("67eb7ac4a31ff2b717000998"),
    name: 'Bhagyashree',
    age: 24,
    course: 'Mechanical'
  },
  {
    _id: ObjectId("67eb7ac4a31ff2b717000999"),
    name: 'Prajkta',
    age: 22,
    course: 'Electronics'
  },
  {
    _id: ObjectId("67eb7ac4a31ff2b71700099a"),
    name: 'Damini',
    age: 25,
    course: 'Civil'
  },
  {
    _id: ObjectId("67eb7ac4a31ff2b71700099b"),
    name: 'Advik',
    age: 20,
    course: 'AI & ML'
  },
  {
    _id: ObjectId("67eb7ac4a31ff2b71700099c"),
    name: 'Ankita',
    age: 23,
    course: 'Data Science'
  }
]
studentDB> db.students.countDocuments()
9
studentDB>
```