MongoDB - LAB 1

1.

a) Create a database named pets in MongoDB Shell.

```
student> use pets
switched to db pets
student> use pets
switched to db pets
```

b) Create a collection named mammals.

```
pets> db.createCollection("mammals")
{ ok: 1 }
  pets> db.createCollection("mammals")
  { ok: 1 }
```

c) Insert some documents to the mammals collection with fields petid, name and species. (Using insertOne())

```
mammals>db.mammals.insertOne({"petid":1,"name":"smokey","species":"dog"})
 acknowledged: true,
 insertedId: ObjectId("6516ba87d0d4313ebc6da8a7")
mammals > db.mammals.insertOne({"petid":2,"name":"meow","species":"cat"})
 acknowledged: true,
insertedId: ObjectId("6516bab4d0d4313ebc6da8a8")
mammals > db.mammals.insertOne({"petid":3,"name":"blacky","species":"dog"})
 acknowledged: true,
 insertedId: ObjectId("6516bacbd0d4313ebc6da8a9")
pets> use mammals
switched to db mammals
mammals> db.mammals.insertOne({"petid":1,"name":"smokey","species":"dog"})
  acknowledged: true,
  insertedId: ObjectId("6516ba87d0d4313ebc6da8a7")
mammals> db.mammals.insertOne({"petid":2,"name":"meow","species":"cat"})
  acknowledged: true,
  insertedId: ObjectId("6516bab4d0d4313ebc6da8a8")
mammals> db.mammals.insertOne({"petid":3,"name":"blacky","species":"dog"})
  acknowledged: true,
  insertedId: ObjectId("6516bacbd0d4313ebc6da8a9")
```

```
d) Find all the mammals.
  mammals> db.mammals.find()
    _id: ObjectId("6516ba87d0d4313ebc6da8a7"),
    petid: 1,
    name: 'smokey',
    species: 'dog'
   },
    _id: ObjectId("6516bab4d0d4313ebc6da8a8"),
    petid: 2,
    name: 'meow',
    species: 'cat'
   },
    _id: ObjectId("6516bacbd0d4313ebc6da8a9"),
    petid: 3,
    name: 'blacky',
    species: 'dog'
   mammals> db.mammals.find()
     {
       _id: ObjectId("6516ba87d0d4313ebc6da8a7"),
        petid: 1,
       name: 'smokey',
        species: 'dog'
     },
        _id: ObjectId("6516bab4d0d4313ebc6da8a8"),
        petid: 2,
       name: 'meow',
        species: 'cat'
     },
        _id: ObjectId("6516bacbd0d4313ebc6da8a9"),
        petid: 3,
        name: 'blacky',
        species: 'dog'
```

e) Find all the mammals with "dog" as their species.

```
mammals> db.mammals.find({"species":"dog"})
  _id: ObjectId("6516ba87d0d4313ebc6da8a7"),
  petid: 1,
  name: 'smokey',
  species: 'dog'
 },
  _id: ObjectId("6516bacbd0d4313ebc6da8a9"),
  petid: 3,
  name: 'blacky',
  species: 'dog'
 mammals> db.mammals.find({"species":"dog"})
   {
     _id: ObjectId("6516ba87d0d4313ebc6da8a7"),
     petid: 1,
     name: 'smokey',
      species: 'dog'
   },
     _id: ObjectId("6516bacbd0d4313ebc6da8a9"),
      petid: 3,
     name: 'blacky',
      species: 'dog'
```

f) Create another capped collection named owner with maximum 10 documents.

```
pets> db.createCollection("owner",{capped : true, size : 5242880, max :10})
{ ok: 1 }
pets> db.createCollection("owner",{capped : true, size : 5242880, max :10})
{ ok: 1 }
```

g) Insert some documents to the owner collection with fields ownerid, name, city, state and contact where contact is an embedded document containing fields email and mobile. (Using insertMany()).

h) Find all owners residing in a particular city and state.

i) Find a particular owner whose mobile is given.

j) Find owners whose email or mobile is given.

pets>db.owner.find({"\$or":[{"contact.mobile":98564221},{"contact.email":"niks@gmail.com"}]})