Q1. a) Create a database named pets in MongoDB Shell.

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

b) Create a collection named mammals.

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

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

```
pets> db.mammals.insertOne({"petid" :1,"name":"elephant","species":"asisan"})
{
   acknowledged: true,
   insertedId: ObjectId("6516a550b7f742f054ce587d")
}

pets> db.mammals.insertOne({"petid" :2,"name":"cat","species":"wild"})
{
   acknowledged: true,
   insertedId: ObjectId("6516a5a7b7f742f054ce587e")
}
```

d) Find all the mammals.

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

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

```
pets> db.createCollection("owner", {capped:true, size:5604683, 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()).

```
pets> db.owner.insertMany([{"ownerid":111,"name":"jack","city":"New York","state":"NY",
"contact":{"email":"jack@g.com","mobile":"9560325635"}}, {"ownerid":222,"name":"john","c
ity":"mumbai","state":"maha","contact":{"email":"jo@mn.com","mobile":"625914356"}}])
{
   acknowledged: true,
   insertedIds: {
      '0': ObjectId("6516aeb3b7f742f054ce5883"),
      '1': ObjectId("6516aeb3b7f742f054ce5884")
}
}
```

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.