# Assignment 1:

```
use petshop
```

```
db.createCollection("pets")
```

```
db.pets.insertMany(
 [
```
{name: "Mikey", species: "Gerbil"},

{name: "Davey Bungooligan", species: "Piranha"},

{name: "Suzy B", species: "Cat"},

{name: "Mikey", species: "Hotdog"},

{name: "Terrence", species: "Sausagedog"},

{name: "Philomena Jones", species: "Cat"}

 ]

}

1Q:Add another piranha, and a naked mole rat called Henry

CODE: db.pets.insertMany( [ {name:"Henry",species:"Piranaha},{name:"Henry",species:"naked mole rat"} } )

2Q: Use find to list all the pets. Find the ID of Mikey the Gerbil.

```
db.pets.find(),
db.pets.find({name:"Mikey",species:"Gerbil"})
```

Q: Use find to find Mikey by id.

```
CODE:   db.pets.find({_id:ObjectId("6595f62acc8afd4e6d11ad77")})
```

4Q: Use find to find all the gerbils.

```
db.pets.find({species:"Gerbil"})
```

5Q : Find all the creatures named Mikey.

```
db.pets.find({name:"Mikey"})
```

6Q: • Find all the creatures named Mikey who are gerbils.

```
db.pets.find({name:"Mikey",species:"Gerbil"})
```

# Assignment 3:

1. Use the mongo import tool command to load the json file into a collection with a name as "University".

C:\Program Files\MongoDB\Server\7.0\bin>mongoimport --db peter --collection university --type json --file C:\Users\admin\Downloads\MONGO_DB\Json_files/university.json

2024-01-08T17:35:46.295-0500    connected to: mongodb://localhost/

2024-01-08T17:35:46.318-0500    2 document(s) imported successfully. 0 document(s) failed to import.

2.Fetch those documents which specify that Spain is the value of the field country, and Salamanca is the value of the field city

```
db.university.find({"location.type":"Point","location.coordinates.1":17})
```

3. Extract the country, city and name from all the documents using the projection

```
db.university.aggregate({$project:{city:1,country:1,name:1}})
```

4. Find out the count of documents per university name (hint:- Using the aggregation query) and store the results of the query into a new collection.

```
db.university.aggregate([{$group:{_id:"$name", count:{$sum:1}}}])
```