

NAME :: IBRAR BABAR

ROLL NO. :: P19-0104

BS(CS) :: SECTION 4A

DATABASE LAB (11)

Exercise (1(a))

(Create a database)

Use P190104_4A;

Db;

```
>
> use P190104_4A;
switched to db P190104_4A
>
> db;
P190104_4A
>
```

Exercise (1(b))

(Create Collection)

db.createCollection("users");

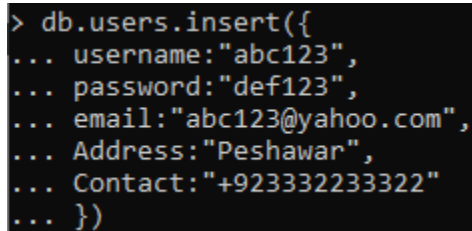
show collections;

```
>
> db.createCollection("users");
{ "ok" : 1 }
> show collections;
users
>
```

Exercise (1(c))

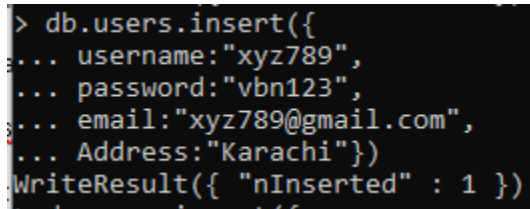
(Insert Record)

```
db.users.insert({  
  ... username:"abc123",  
  ... password:"def123",  
  ... email:"abc123@yahoo.com",  
  ... Address:"Peshawar",  
  ... Contact:"+923332233322"  
  ... })
```



```
> db.users.insert({  
  ... username:"abc123",  
  ... password:"def123",  
  ... email:"abc123@yahoo.com",  
  ... Address:"Peshawar",  
  ... Contact:"+923332233322"  
  ... })
```

```
db.users.insert({  
  ... username:"xyz789",  
  ... password:"vbn123",  
  ... email:"xyz789@gmail.com",  
  ... Address:"Karachi"})
```



```
> db.users.insert({  
  ... username:"xyz789",  
  ... password:"vbn123",  
  ... email:"xyz789@gmail.com",  
  ... Address:"Karachi"})  
WriteResult({ "nInserted" : 1 })
```

```
db.users.insert({  
  ... username:"zain",  
  ... password:"Abc123",  
  ... email:"zain@gmail.com",  
  ... DOB:"1997-02-13",  
  ... Address:"Islamabad"})
```

```
> db.users.insert({  
  ... username:"zain",  
  ... password:"Abc123",  
  ... email:"zain@gmail.com",  
  ... DOB:"1997-02-13",  
  ... Address:"Islamabad"})  
WriteResult({ "nInserted" : 1 })
```

```
db.users.insert({  
  ... username:"Atif",  
  ... password:"Qwe123",  
  ... email:"atif@gmail.com",  
  ... Address:"Islamabad"})
```

```
> db.users.insert({  
  ... username:"Atif",  
  ... password:"Qwe123",  
  ... email:"atif@gmail.com",  
  ... Address:"Islamabad"})  
WriteResult({ "nInserted" : 1 })  
,
```

Exercise (1(d))

(Show users list)

```
db.users.find().pretty()
```

```
> db.users.find().pretty()
{
  "_id" : ObjectId("60b2f2ed6610a7ff6494fc3b"),
  "username" : "abc123",
  "password" : "def123",
  "email" : "abc123@yahoo.com",
  "Address" : "Peshawar",
  "Contact" : "+923332233322"
}
{
  "_id" : ObjectId("60b2f35f6610a7ff6494fc3c"),
  "username" : "xyz789",
  "password" : "vbn123",
  "email" : "xyz789@gmail.com",
  "Address" : "Karachi"
}
{
  "_id" : ObjectId("60b2f55d6610a7ff6494fc3d"),
  "username" : "zain",
  "password" : "Abc123",
  "email" : "zain@gmail.com",
  "DOB" : "1997-02-13",
  "Address" : "Islamabad"
}
{
  "_id" : ObjectId("60b2f5be6610a7ff6494fc3e"),
  "username" : "Atif",
  "password" : "Qwe123",
  "email" : "atif@gmail.com",
  "Address" : "Islamabad"
}
```

Exercise (1(e))

(Searching)

```
db.users.createIndex({Address:"text",description:"text"})
```

```
> db.users.createIndex({Address:"text",description:"text"})
{
  "createdCollectionAutomatically" : false,
  "numIndexesBefore" : 1,
  "numIndexesAfter" : 2,
  "ok" : 1
}
```

```
db.users.find({$text: {$search:"Islamabad"}}).pretty()
```

```
> db.users.find({$text: {$search:"Islamabad"}}).pretty()
{
  "_id" : ObjectId("60b2f5be6610a7ff6494fc3e"),
  "username" : "Atif",
  "password" : "Qwe123",
  "email" : "atif@gmail.com",
  "Address" : "Islamabad"
}
{
  "_id" : ObjectId("60b2f55d6610a7ff6494fc3d"),
  "username" : "zain",
  "password" : "Abc123",
  "email" : "zain@gmail.com",
  "DOB" : "1997-02-13",
  "Address" : "Islamabad"
}
>
```
