MongoDB Lab2

1- run following queries on instructors collection:

   a- Display all documents in instructors collection

   b- Display all instructors with salaries greater than 4000 (only show firstName and salary)

   c- Display all instructors with ages less than or equal 25.

   d- Display all instructors with city mansoura and sreet number 10 or 14 only display (firstname,address,salary).

   e- Display all instructors who have js and jquery in their courses (both of them not one of them).

   f- Display number of courses for each instructor and display first name with number of courses.

```
mona    4
mazen   3
badr    4
ebtesam 6
noha    4
mona    4
mazen   3
ebtesam 5
```

   g- Write mongodb query to get all instructors that have firstName and lastName properties , sort them by firstName ascending then by lastName descending and finally display their data FullName and age
   Note: use mongoDb sort method not javascript array method

```
FullName : badr ahmed , Age: 22
FullName : ebtesam hesham , Age: 21
FullName : ebtesam ahmed , Age: 28
FullName : mazen mohammed , Age: 21
FullName : mazen ali , Age: 30
FullName : mona mohammed , Age: 21
FullName : mona ahmed , Age: 21
FullName : noha hesham , Age: 21
```

   BONUS: create new collection with step g values data and name it instructorsData

   h- Find all instructors that have fullName that contains "mohammed".

   i- Delete instructor with first name "ebtesam" and has only 5 courses in courses array

   j- Add active property to all instructors and set its value to true.

k- Change "EF" course to "jquery" for "mazen mohammed" instructor (without knowing EF Index)

l- Add jquery course for "noha hesham".

m- Remove courses property for "ahmed mohammed " instructor

n- Decrease salary by 500 for all instructors that has only 3 courses in their list ($inc)

o- Rename address field for all instructors to fullAddress.

p- Change street number for noha hesham to 20