MongoDB Lab1

1- Install mongodb

2- Add mongo DB folder to your system variables path
   Go to -> Edit System environment variables -> Environment varaibles->
   inside system variables choose path and add "C:\Program
   Files\MongoDB\Server\4.0\bin" apply and exit.

3- Open server (on windows shell using command "mongod");

4- Open another shell for client using command "mongo" or ROBO3T Tool

5- Create database with name ITI → by typing use ITI

6- start create new collection named instructors following with inserts
   a- Insert your own data
   b- Insert instructor without firstName and LastName (mongo will raise an error or not ?)
   c- Using array contained with lab folder instructors.txt file.
   d- **BONUS** Include data contained in json file (instructors.json) in your lab folder using administration mongoimport command

   In Windows Shell
   mongoimport --db ITI --collection instrcutors --file filename.json --jsonArray

7- Try the following queries: (all queries should be run using find or findOne)
   a- Display all documents for instructors collection
   b- Display all instructors with fields firstName, lastName and address
   c- Display firstName and city(not full address) for instructors with age 21.

   d- Display firstName and age for instructors live in Mansoura city.

   e- Try to run these commands

      1-
      db.instructors.find({firstName:"mona"},{lastName:"ahmed"},{firstName:1,lastName:1})
      Explain the output!!

      2- db.instructors.find({courses:"mvc"},{firstName:1,courses:1})
      Explain the output!