**package** mongo;

**import** java.util.Scanner;

**import** com.mongodb.client.\*;

**import** com.mongodb.MongoClient;

**import** org.bson.Document;

**public** **class** mongo {

**public** **static** **void** main(String[] args) {

       MongoClient client = **new** MongoClient("127.0.0.1", 27017);

       System.***out***.println("Connected to DB");

       MongoDatabase db = client.getDatabase("31380\_db");

       MongoCollection<Document> collection = db.getCollection("sampleCollection");

       Scanner sc = **new** Scanner(System.***in***);

**while** (**true**) {

           System.***out***.println("Menu:");

           System.***out***.println("1. Create");

           System.***out***.println("2. Read");

           System.***out***.println("3. Update");

           System.***out***.println("4. Delete");

           System.***out***.println("5. Exit");

           System.***out***.print("Enter your choice: ");

**int** choice = sc.nextInt();

**switch** (choice) {

**case** 1:

                   System.***out***.print("Enter name: ");

                   String name = sc.next();

                   System.***out***.print("Enter age: ");

**int** age = sc.nextInt();

                   System.***out***.print("Enter city: ");

                   String city = sc.next();

                   Document newDoc = **new** Document("name", name).append("age", age).append("city", city);

                   collection.insertOne(newDoc);

                   System.***out***.println("Document inserted successfully");

**break**;

**case** 2:

                   System.***out***.println("Documents in collection:");

**for** (Document doc : collection.find()) {

                       System.***out***.println(doc.toJson());

                   }

**break**;

**case** 3:

                   System.***out***.print("Enter the name of the document to update: ");

                   String updateName = sc.next();

                   System.***out***.print("Enter the new age: ");

**int** newAge = sc.nextInt();

                   System.***out***.print("Enter the new city: ");

                   String newCity = sc.next();

                   Document filter = **new** Document("name", updateName);

                   Document update = **new** Document("$set", **new** Document("age", newAge).append("city", newCity));

                   collection.updateOne(filter, update);

                   System.***out***.println("Document updated successfully");

**break**;

**case** 4:

                   System.***out***.print("Enter the name of the document to delete: ");

                   String deleteName = sc.next();

                   Document deleteFilter = **new** Document("name", deleteName);

                   collection.deleteOne(deleteFilter);

                   System.***out***.println("Document deleted successfully");

**break**;

**case** 5:

                   System.***out***.println("Exiting...");

                   client.close();

                   sc.close();

**return**;

**default**:

                   System.***out***.println("Invalid choice! Please try again.");

           }

           System.***out***.print("Continue? (y/n): ");

           String ans = sc.next();

**if** (ans.equalsIgnoreCase("n")) **break**;

       }

       sc.close();

       client.close();

   }

}