Saturday Assignment 22BLC1194

■ 1st question

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import java.util.ArrayList;
import org.bson.Document;
import com.mongodb.BasicDBObject;
import com.mongodb.client.*;
import com.mongodb.client.model.Filters;
public class Connection_practice {
  public static void main(String[] args) {
    MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017");
    MongoDatabase database = mongoClient.getDatabase("Saturday");
    MongoCollection<Document> collection = database.getCollection("student");
    collection.drop();
    Document document1 = new Document("First_Name", "Sai")
      .append("Last_Name", "kushal")
      .append("Mark", 90)
      .append("age", 18);
    Document document2 = new Document("First Name", "suneeth")
      .append("Last_Name", "reddy")
      .append("Mark", 90)
      .append("age", 22);
    Document document3 = new Document("First_Name", "krishna")
      .append("Last_Name", "kishore")
      .append("Mark", 91)
      .append("age", 20);
    Document document4 = new Document("First_Name", "Prem")
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.append("Last_Name", "sai")
      .append("Mark", 89)
      .append("age", 19);
    ArrayList<Document> documents = new ArrayList<Document>();
    documents.add(document1);
    documents.add(document2);
    documents.add(document3);
    documents.add(document4);
    collection.insertMany(documents);
    Document highestMark = collection.find().sort(new BasicDBObject("Mark", -1)).first();
    if (highestMark != null) {
      int Mark = highestMark.getInteger("Mark");
      FindIterable<Document> highestMarkStudents = collection.find(Filters.eq("Mark", Mark));
      System.out.println("Students with the highest mark:");
      for (Document doc : highestMarkStudents) {
        System.out.println(doc);
      }
    } else {
      System.out.println("No students found");
    }
  }
}
    ■ 2nd question
import java.util.ArrayList;
import org.bson.Document;
import com.mongodb.BasicDBObject;
import com.mongodb.client.*;
public class Assignment_2_2 {
  public static void main(String[] args) {
```

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MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017");
MongoDatabase database = mongoClient.getDatabase("Saturday");
MongoCollection<Document> collection = database.getCollection("employee");
collection.drop(); // Drop the collection if it exists to start fresh
Document document1 = new Document("First_Name", "Sai")
  .append("Last_Name", "Kushal")
  .append("salary", 18000)
  .append("age", 30);
Document document2 = new Document("First_Name", "Krishna")
  .append("Last_Name", "Kishore")
  .append("salary", 21000)
  .append("age", 35);
Document document3 = new Document("First_Name", "Feroz")
  .append("Last_Name", "shaik")
  .append("salary", 17000)
  .append("age", 42);
Document document4 = new Document("First_Name", "karthik")
  .append("Last_Name", "ram")
  .append("salary", 22000)
  .append("age", 37);
Document document5 = new Document("First_Name", "suneeth")
    .append("Last_Name", "reddy")
    .append("salary", 38000)
    .append("age", 44);
Document document6 = new Document("First_Name", "lalith")
    .append("Last_Name", "sri")
    .append("salary", 29000)
    .append("age", 32);
ArrayList<Document> documents = new ArrayList<>();
```

```
documents.add(document1);
    documents.add(document2);
    documents.add(document3);
    documents.add(document4);
    documents.add(document5);
    documents.add(document6);
    collection.insertMany(documents);
    FindIterable<Document> sortedsalary = collection.find().sort(new BasicDBObject("salary", 1));
    Document lowestSalary = null;
    for (Document doc : sortedsalary) {
      int age = doc.getInteger("age");
      if (age >= 30 && age <= 40) {
        lowestSalary = doc;
        break;
      }
    }
    if (lowestSalary != null) {
      System.out.println("Employee with the lowest salary in the age range 30 to 40:");
      System.out.println(lowestSalary.toJson());
    } else {
      System.out.println("No employees found");
    }
  }
}
```