**package connection;**

**import org.bson.Document;**

**import com.mongodb.client.MongoClient;**

**import com.mongodb.client.MongoClients;**

**import com.mongodb.client.MongoCollection;**

**import com.mongodb.client.MongoDatabase;**

**import com.mongodb.client.MongoIterable;**

**public class mongoDB {**

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

**// Creating a Mongo client**

**MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");**

**MongoDatabase database=mongoClient.getDatabase("monday123");**

**database.createCollection("employeeRecord");**

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

**Document document= new Document("title","MongoDB");**

**collection.insertOne(document);**

**MongoIterable<String> loop1 = mongoClient.listDatabaseNames();**

**for (String name : loop1) {**

**System.*out*.println(name);**

**}**

**}**

**}**

**AFTER DROPPING THE DATABASE:**

**package connection;**

**import org.bson.Document;**

**import com.mongodb.client.MongoClient;**

**import com.mongodb.client.MongoClients;**

**import com.mongodb.client.MongoCollection;**

**import com.mongodb.client.MongoDatabase;**

**import com.mongodb.client.MongoIterable;**

**public class mongoDB {**

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

**// Creating a Mongo client**

**MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");**

**MongoDatabase database=mongoClient.getDatabase("monday123");**

**database.drop();**

**System.*out*.println("Database dropped.");**

**MongoIterable<String> loop1 = mongoClient.listDatabaseNames();**

**for (String name : loop1) {**

**System.*out*.println(name);**

**}**

**}**

**}**

**CREATING AND DISPLAYING THE COLLECTION:**

**package connection;**

**import org.bson.Document;**

**import com.mongodb.client.MongoClient;**

**import com.mongodb.client.MongoClients;**

**import com.mongodb.client.MongoCollection;**

**import com.mongodb.client.MongoDatabase;**

**import com.mongodb.client.MongoIterable;**

**public class collectionDB {**

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

**// Creating a Mongo client**

**MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:3001");**

**MongoDatabase database = mongoClient.getDatabase("myDb");**

**database.createCollection("sampleCollection");**

**MongoIterable<String> collections = database.listCollectionNames();**

**for (String name : collections) {**

**System.*out*.println(name);**

**}**

**}**

**}**

**INSERTING DOCUMENTS:**

**package connection;**

**import java.util.ArrayList;**

**import java.util.List;**

**import org.bson.Document;**

**import com.mongodb.client.MongoClient;**

**import com.mongodb.client.MongoClients;**

**import com.mongodb.client.MongoCollection;**

**import com.mongodb.client.MongoDatabase;**

**public class insertionDB {**

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

**// Creating a Mongo client**

**MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:3001");**

**MongoDatabase database = mongoClient.getDatabase("myDb");**

**// Get the collection**

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

**Document document = new Document("First\_Name", "Mahesh")**

**.append("Last\_Name", "Parashar")**

**.append("Date\_Of\_Birth", "1990-08-21")**

**.append("e\_mail", "mahesh\_parashar.123@gmail.com")**

**.append("phone", "9034343345");**

**collection.insertOne(document);**

**List<Document> documents = new ArrayList<>();**

**documents.add(new Document("First\_Name", "Radhika")**

**.append("Last\_Name", "Sharma")**

**.append("Date\_Of\_Birth", "1995-09-26")**

**.append("e\_mail", "radhika\_sharma.123@gmail.com")**

**.append("phone", "9000012345"));**

**documents.add(new Document("First\_Name", "Rachel")**

**.append("Last\_Name", "Christopher")**

**.append("Date\_Of\_Birth", "1990-02-16")**

**.append("e\_mail", "Rachel\_Christopher.123@gmail.com")**

**.append("phone", "9000054321"));**

**documents.add(new Document("First\_Name", "Fathima")**

**.append("Last\_Name", "Sheik")**

**.append("Date\_Of\_Birth", "1990-02-16")**

**.append("e\_mail", "Fathima\_Sheik.123@gmail.com")**

**.append("phone", "9000054321"));**

**collection.insertMany(documents);**

**System.*out*.println("Documents inserted.");**

**}**

**}**

**RETRIEVING VALUES FROM THE COLLECTION:**

**package connection;**

**import org.bson.Document;**

**import com.mongodb.client.FindIterable;**

**import com.mongodb.client.MongoClient;**

**import com.mongodb.client.MongoClients;**

**import com.mongodb.client.MongoCollection;**

**import com.mongodb.client.MongoDatabase;**

**import com.mongodb.client.model.Filters;**

**public class retrieveDB {**

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

**MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");**

**MongoDatabase database = mongoClient.getDatabase("myDb");**

**// Get the collection**

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

**FindIterable<Document> allDocuments=collection.find();**

**for (Document document: allDocuments){**

**System.*out*.println(document);**

**}**

**System.*out*.println("\*\*\*Selected Document\*\*\*");**

**FindIterable<Document> documents=collection.find(Filters.*eq*("First\_Name","Mahesh"));**

**for(Document document: documents){**

**System.*out*.println(document);**

**}**

**}**

**}**

**RETRIEVING DOCUMENTS BASED ON USER INPUTS:**

**package connection;**

**import org.bson.Document;**

**import java.util.Scanner;**

**import com.mongodb.client.FindIterable;**

**import com.mongodb.client.MongoClient;**

**import com.mongodb.client.MongoClients;**

**import com.mongodb.client.MongoCollection;**

**import com.mongodb.client.MongoDatabase;**

**import com.mongodb.client.model.Filters;**

**public class selectionvalues {**

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

**MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");**

**MongoDatabase database = mongoClient.getDatabase("myDb");**

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

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

**// Insert a new document**

**System.*out*.println("Enter First\_Name:");**

**String firstName = sc.nextLine();**

**System.*out*.println("Enter Last\_Name:");**

**String lastName = sc.nextLine();**

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

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

**sc.nextLine(); // Consume newline**

**Document newDoc = new Document("First\_Name", firstName)**

**.append("Last\_Name", lastName)**

**.append("Age", age);**

**collection.insertOne(newDoc);**

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

**// Retrieve all documents**

**System.*out*.println("=== All Documents ===");**

**FindIterable<Document> allDocuments = collection.find();**

**for (Document doc : allDocuments) {**

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

**}**

**// Filtered document search using user input**

**System.*out*.println("\nEnter field name to filter (e.g., First\_Name):");**

**String filterField = sc.nextLine();**

**System.*out*.println("Enter value to search for:");**

**String filterValue = sc.nextLine();**

**System.*out*.println("\*\*\* Selected Document(s) \*\*\*");**

**FindIterable<Document> filteredDocs = collection.find(Filters.*eq*(filterField, filterValue));**

**for (Document doc : filteredDocs) {**

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

**}**

**}**

**}**