Creating the database:

Code:

```
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);
```

```
    }


  }
}
```

Dropping the database

Code:

```
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);
```

```
    }

  }
}
```

Create and display the collections

Code:

```
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:27017");
    MongoDatabase database = mongoClient.getDatabase("myDb");
    database.createCollection("sampleCollection");



    MongoIterable<String> collections = database.listCollectionNames();
    for (String name : collections) {
```

```
    System.out.println(name);
  }

 }
}
```

Insert documnents

Code:

```
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:27017");

  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.");
  }
}
```

Retrive documents from the collection

Code:

```
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);

        }

    }

}
```

On user Input

Code:

```
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("Enter 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());
    }

    sc.close();
    mongoClient.close();
```

```
    }
}
```