CREATING A 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.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:27017");
      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: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.");
    }
}
```

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("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();
    }
}
```