

MONGODB

Eclipse to mongodb connection:

```
package connection;

import com.mongodb.MongoClient;
import com.mongodb.MongoCredential;
import com.mongodb.client.MongoDatabase;

public class MongoDB {

    public static void main(String[] args) {
        try {
            MongoClient db
                = new MongoClient("localhost", 27017);

            MongoCredential credential;
            credential
                = MongoCredential
                    .createCredential(
                        "GFGUser", "mongoDb",
                        "password".toCharArray());
            System.out.println(
                "Successfully Connected"
                + " to the database");

            MongoDatabase database
                = db.getDatabase("mongoDb");
            System.out.println("Credentials are: "
                + credential);
        }
    }
}
```

```

    catch (Exception e) {

        System.out.println(

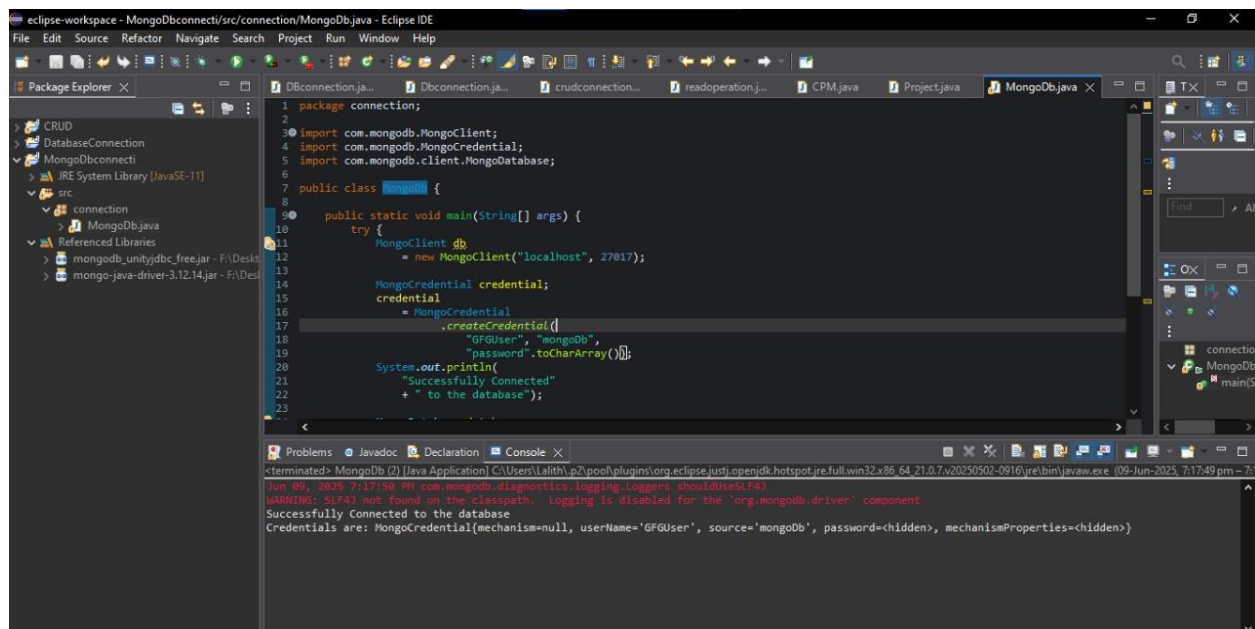
            "Connection establishment failed");

        System.out.println(e);

    }

}

```



Creating mongodb client:

```
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 = MongoClient.create("mongodb://localhost:27017");

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

        for (String name : loop1) {

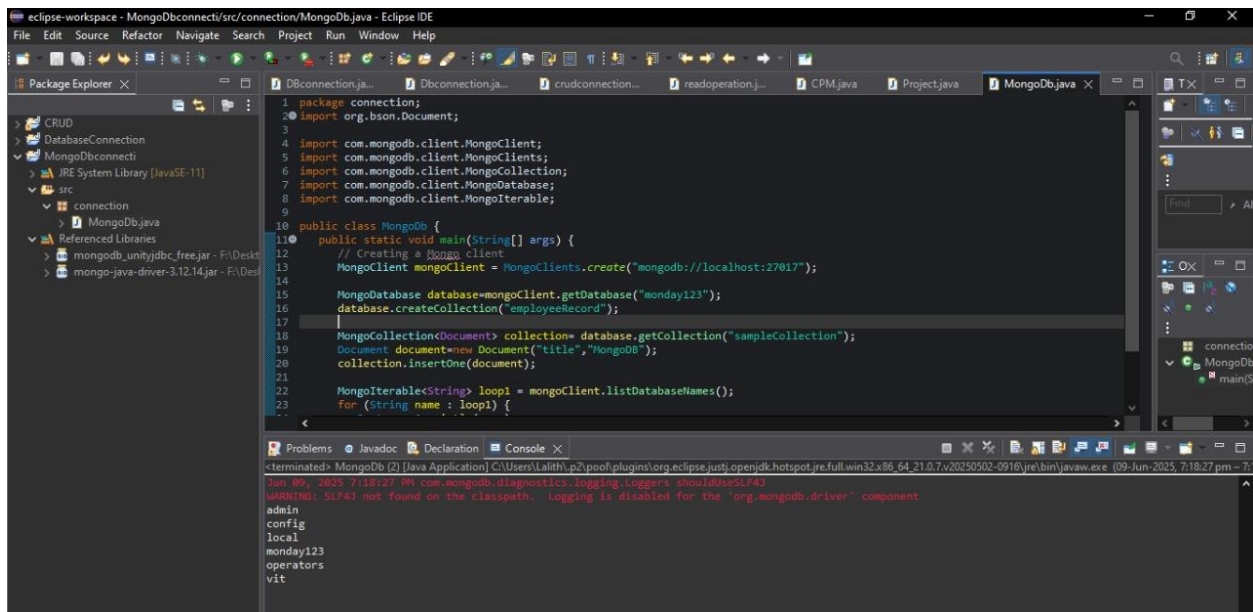
            System.out.println(name);

        }

    }

}

```



Create:

```
package connection;
```

```
import org.bson.Document;
```

```
import com.mongodb.client.*;
```

```
import com.mongodb.client.MongoClient;
```

```
import com.mongodb.client.MongoClients;
```

```

public class Create {

    public static void main(String[] args) {

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

        MongoDBDatabase db = mongoClient.getDatabase("companyDB");

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


        Document emp1 = new Document("name", "Alice")

            .append("age", 30)

            .append("department", "HR");

        collection.insertOne(emp1);

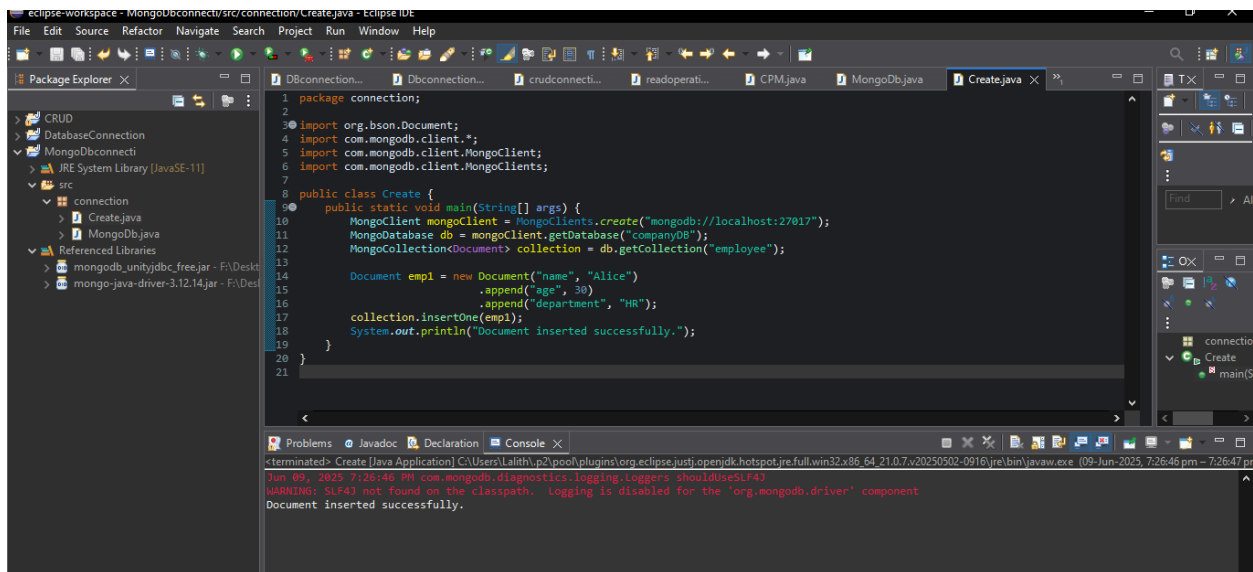
        System.out.println("Document inserted successfully.");

    }

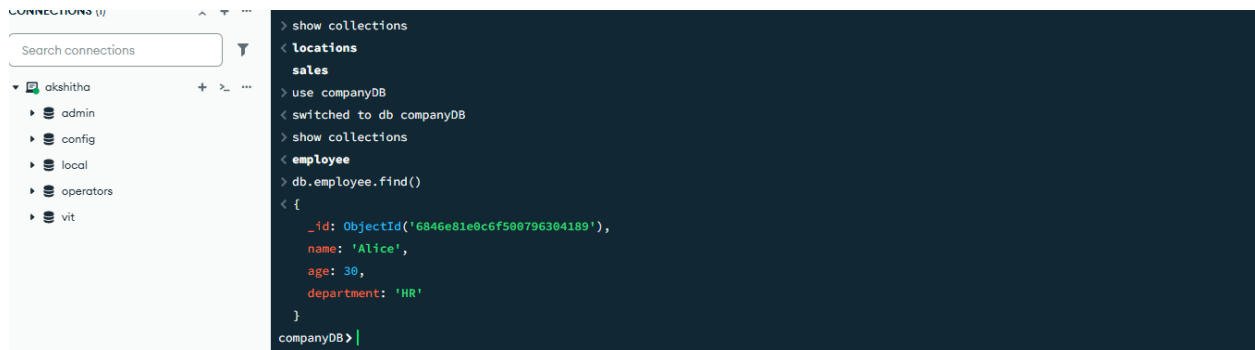
}

```

Eclipse:



Mongodb:



DatabaseDropped:

package connection;

```
import com.mongodb.client.MongoClient;
```

```
import com.mongodb.client.MongoClients;
```

```
import com.mongodb.client.MongoDatabase;
```

```
public class Create {
```

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

```
        try (MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017")) {
```

```
            MongoDatabase db = mongoClient.getDatabase("companyDB");
```

```
            db.drop();
```

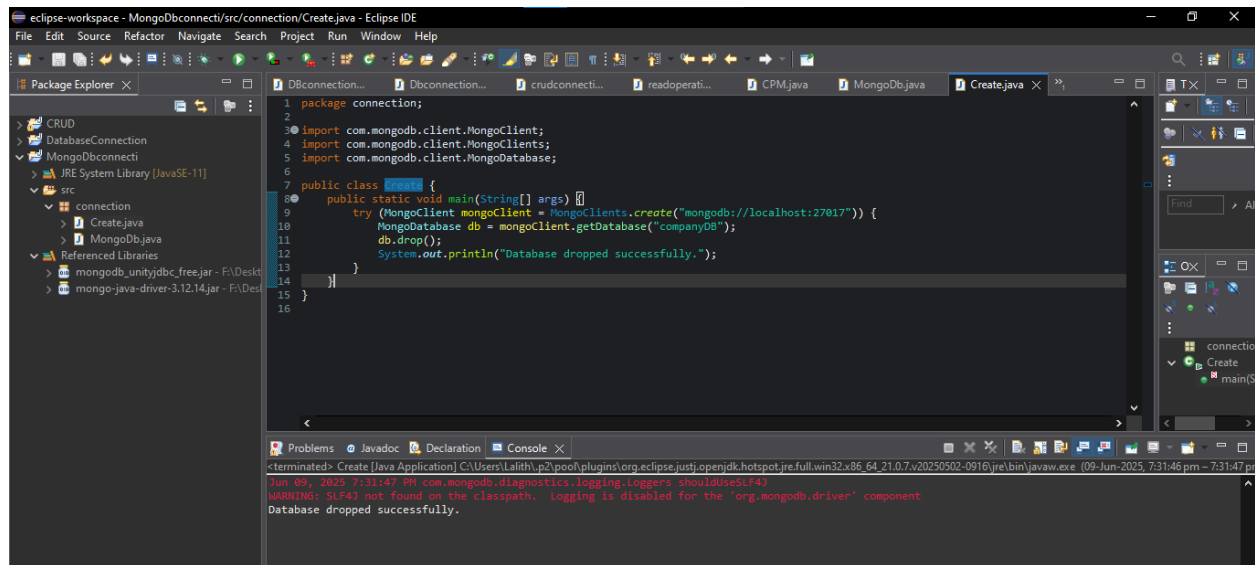
```
            System.out.println("Database dropped successfully.");
```

```
        }
```

```
    }
```

```
}
```

Eclipse:



MONGODB:

```

> show collections
<
companyDB

```

Show collections:

```
package connection;
```

```
import com.mongodb.client.*;
```

```
import org.bson.Document;
```

```
public class Create {
```

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

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

```
        MongoDatabase db = mongoClient.getDatabase("vit");
```

```
        System.out.println("Collections in 'vit' database:");
```

```
        for (String name : db.listCollectionNames()) {
```

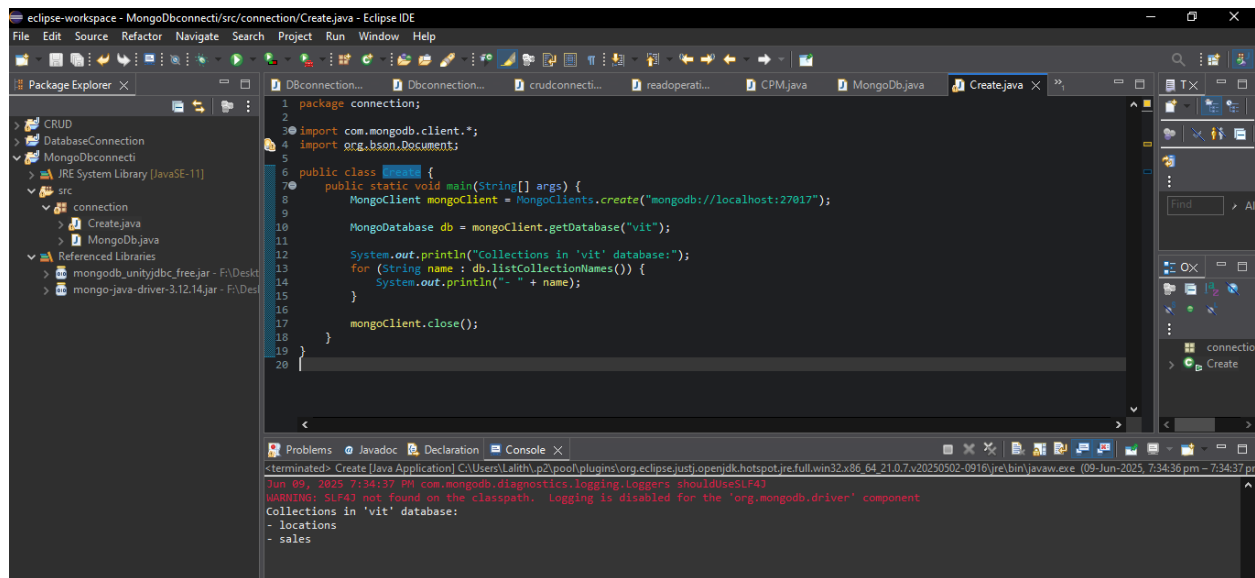
```

        System.out.println("- " + name);
    }

    mongoClient.close();
}
}

```

Eclipse:



Inserting records:

```
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 Create {  
    public static void main(String[] args) {  
        // Creating a Mongo client  
        MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");  
        MongoDB 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"));
```

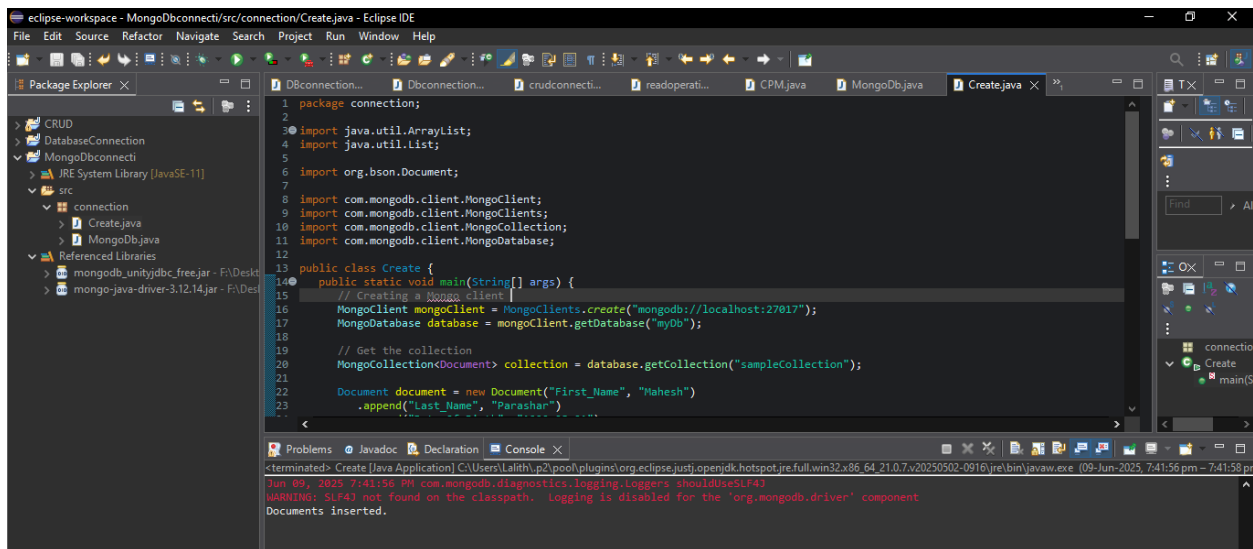
```
collection.insertMany(documents);
```

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

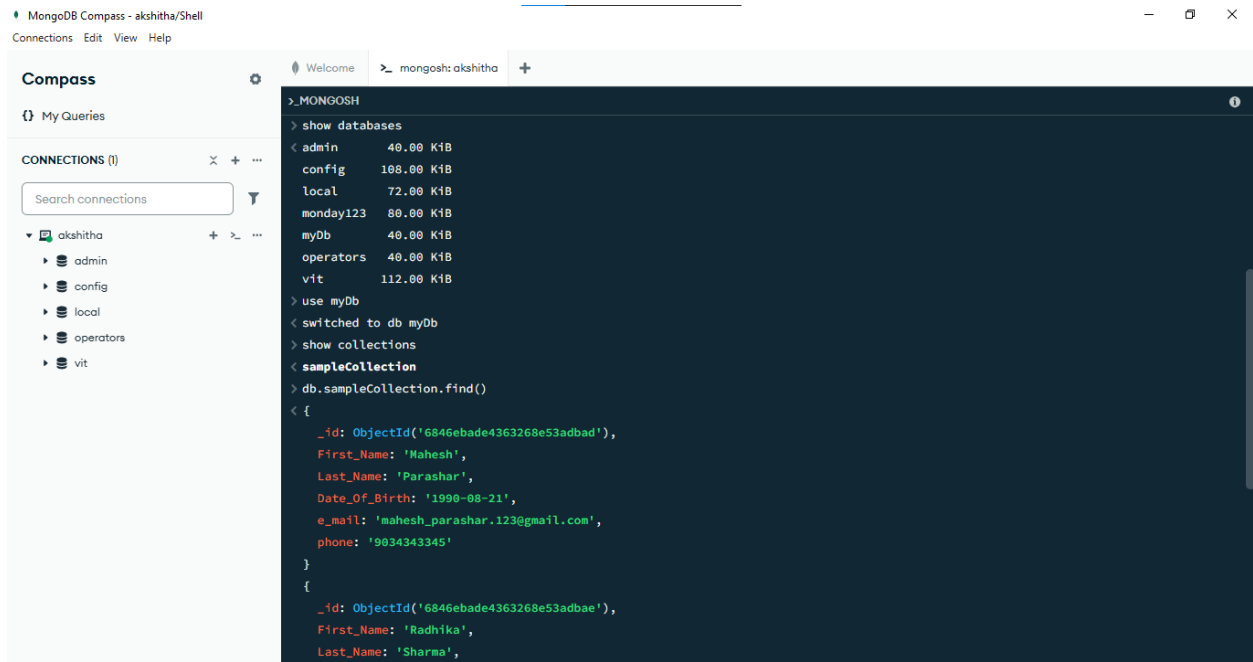
```
}

}
```

Eclipse:



Mongodb:



Retrive the documents in ecllipse:

package connection;

import com.mongodb.client.*;

import org.bson.Document;

public class Create {

public static void main(String[] args) {

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

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

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

FindIterable<Document> documents = collection.find();

for (Document doc : documents) {

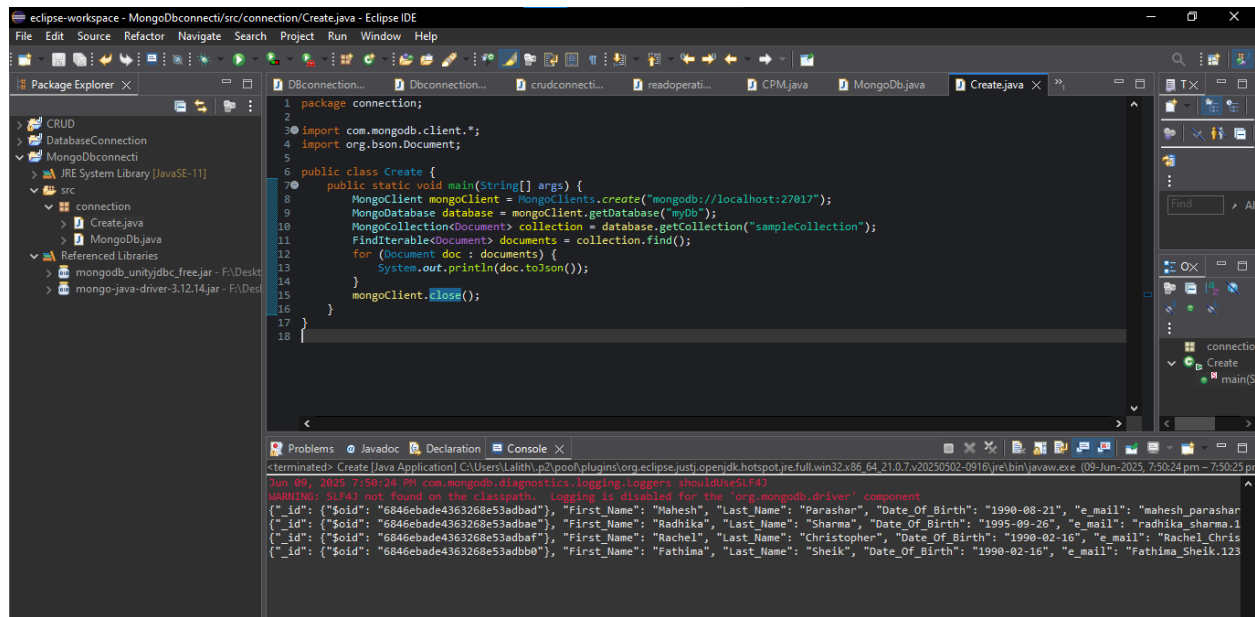
System.out.println(doc.toJson());

}

mongoClient.close();

}

}



Update records:

package connection;

import com.mongodb.client.*;

import com.mongodb.client.model.Filters;

import com.mongodb.client.model.Updates;

import org.bson.Document;

import java.util.Scanner;

public class Create {

public static void main(String[] args) {

try (Scanner scanner = new Scanner(System.in)) {

// Connect to MongoDB

MongoClient mongoClient = MongoClient.create('mongodb://localhost:27017');

MongoDatabase database = mongoClient.getDatabase('myDb');

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

```
// Get user input
System.out.print("Enter email to update: ");
String email = scanner.nextLine();

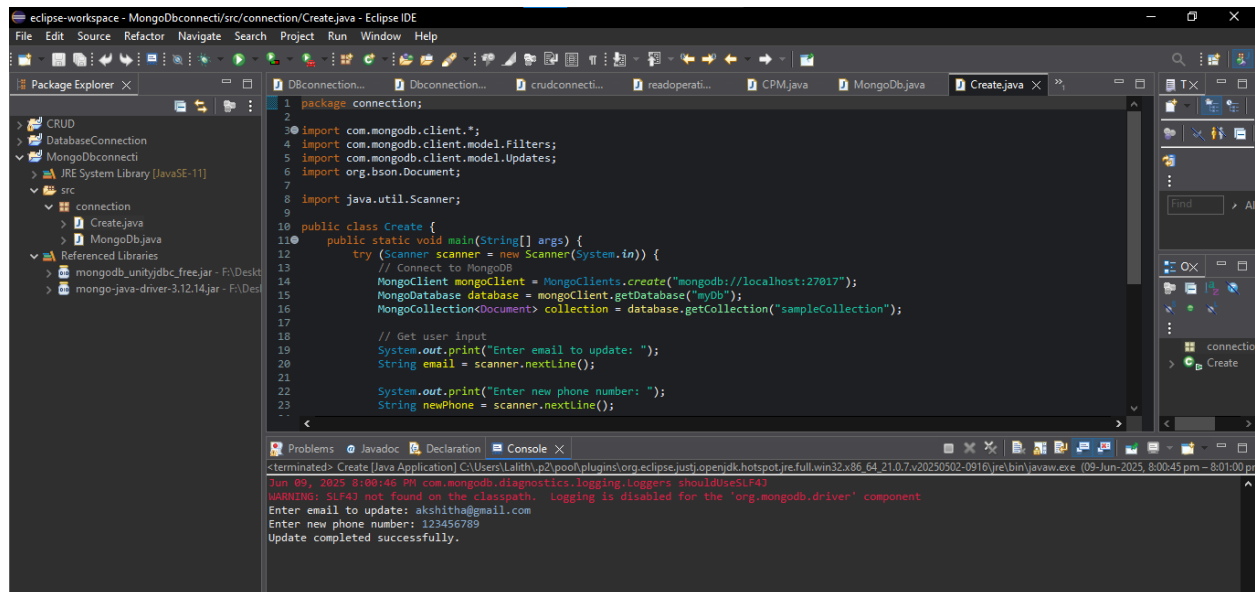
System.out.print("Enter new phone number: ");
String newPhone = scanner.nextLine();

// Update document where e_mail matches input email
collection.updateOne(
    Filters.eq("e_mail", email),
    Updates.set("phone", newPhone)
);

System.out.println("Update completed successfully.");

mongoClient.close();
} catch (Exception e) {
    e.printStackTrace();
}
}
```

Eclipse:



Update many records:

package connection;

import com.mongodb.client.*;

import org.bson.Document;

import java.util.*;

public class Create {

public static void main(String[] args) {

try (Scanner scanner = new Scanner(System.in)) {

// Connect to MongoDB

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

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

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

System.out.print("Enter number of documents to insert: ");

int count = scanner.nextInt();

scanner.nextLine(); // consume newline

```

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

for (int i = 0; i < count; i++) {

    System.out.println("\nEnter details for document " + (i + 1));

    System.out.print("First Name: ");
    String firstName = scanner.nextLine();

    System.out.print("Last Name: ");
    String lastName = scanner.nextLine();

    System.out.print("Date of Birth (YYYY-MM-DD): ");
    String dob = scanner.nextLine();

    System.out.print("Email: ");
    String email = scanner.nextLine();

    System.out.print("Phone: ");
    String phone = scanner.nextLine();

    Document doc = new Document("First_Name", firstName)
        .append("Last_Name", lastName)
        .append("Date_Of_Birth", dob)
        .append("e_mail", email)
        .append("phone", phone);

    documents.add(doc);
}

```

```
collection.insertMany(documents);
```

```
System.out.println("\nAll documents inserted successfully.");
```

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

```
} catch (Exception e) {
```

```
    e.printStackTrace();
```

```
}
```

```
}  
  
}
```

```
eclipse-workspace - MongoDbConnecti/src/connection/Create.java - Eclipse IDE  
File Edit Source Refactor Navigate Search Project Run Window Help  
Package Explorer  
CRUD  
DatabaseConnection  
MongoDbConnecti  
JRE System Library [JavaSE-11]  
src  
connection  
Create.java  
MongoDb.java  
Referenced Libraries  
mongodb-unityjdbc-free.jar - F:\Desk  
mongo-java-driver-3.12.14.jar - F:\Desk  
DBconnection... Dbconnection... crudconnecti... readoperati... CPM.java MongoDb.java Create.java  
1 package connection;  
2  
3 import com.mongodb.client.*;  
4 import org.bson.Document;  
5 import java.util.*;  
6  
Problems Javadoc Declaration Console  
<terminated> Create [Java Application] C:\Users\Lalith.p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full\win32.x86_64\21.0.7.v20230502-0916\jre\bin\javaw.exe (09-Jun-2025, 8:13:34 pm - 8:15:04 pm)  
Jun 09, 2025 8:13:34 PM com.mongodb.diagnostics.logging.Loggers shouldUseSlf4j  
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component  
Enter number of documents to insert: 3  
Enter details for document 1  
First Name: akshi  
Last Name: ratna  
Date of Birth (YYYY-MM-DD): 2004-11-23  
Email: akshi@gmail.com  
Phone: 123456  
Enter details for document 2  
First Name: lalith  
Last Name: kumar  
Date of Birth (YYYY-MM-DD): 2016-05-16  
Email: lali@gmail.com  
Phone: 456987  
Enter details for document 3  
First Name: ram  
Last Name: sitha  
Date of Birth (YYYY-MM-DD): 1973-12-22  
Email: ram@gmail.com  
Phone: 123456987  
All documents inserted successfully.
```

Mongodb:

