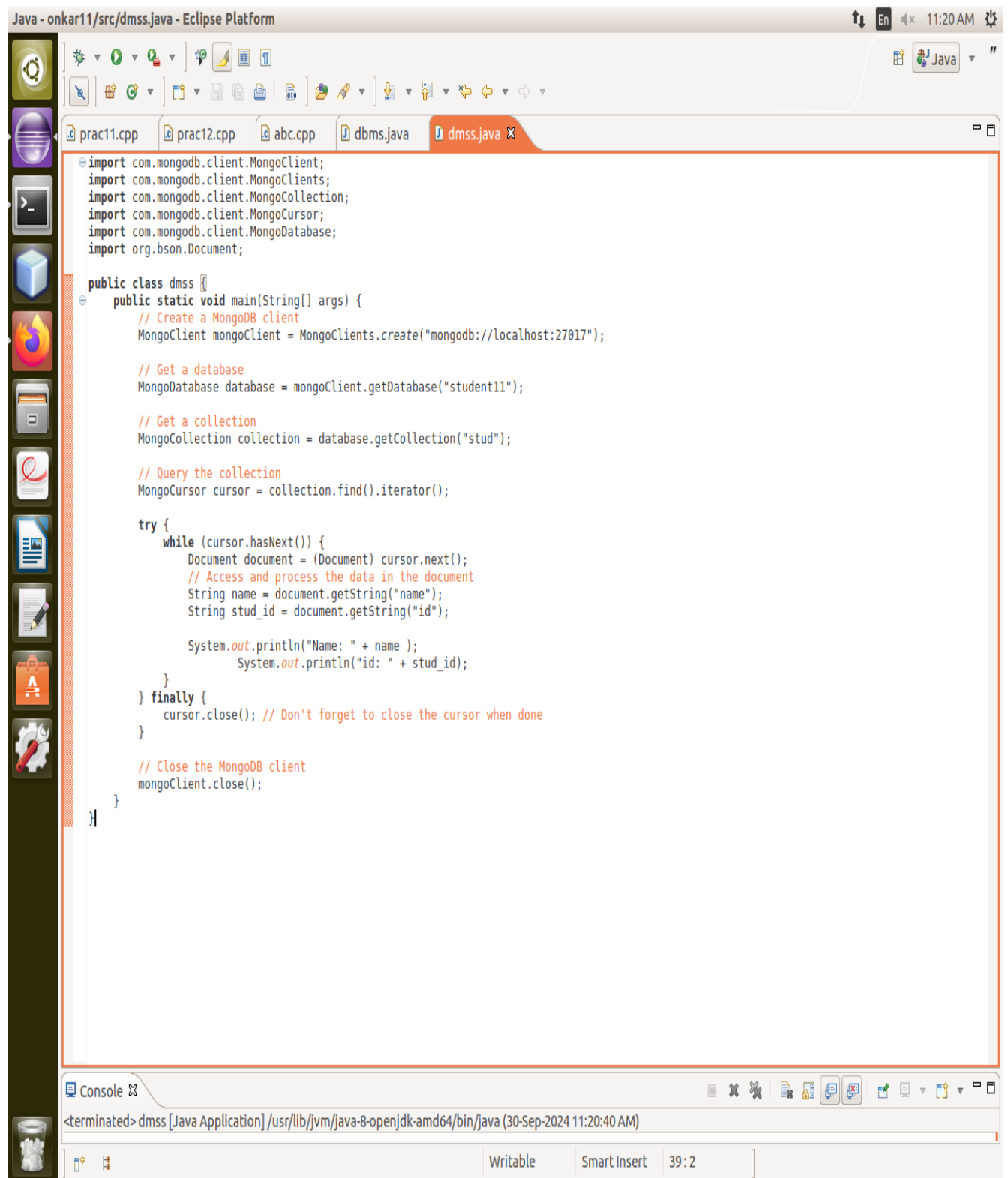


Assignment 12

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Roll NO : COTC15



The screenshot shows the Eclipse IDE interface. The top toolbar contains various icons for file operations, editing, and running. The project explorer on the left shows a package named 'src' containing several files: 'prac11.cpp', 'prac12.cpp', 'abc.cpp', 'dbms.java', and 'dmss.java'. The 'dmss.java' file is selected and its code is displayed in the editor. The code is a Java program that uses the MongoDB Java driver to connect to a local MongoDB instance, query a collection named 'stud', and print the names and IDs of the documents. The console at the bottom shows the output of the program, which is 'terminated'.

```
import com.mongodb.client.MongoClient;
import com.mongodb.client.MongoClients;
import com.mongodb.client.MongoCollection;
import com.mongodb.client.MongoCursor;
import com.mongodb.client.MongoDatabase;
import org.bson.Document;

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

        // Get a database
        MongoDatabase database = mongoClient.getDatabase("student11");

        // Get a collection
        MongoCollection collection = database.getCollection("stud");

        // Query the collection
        MongoCursor cursor = collection.find().iterator();

        try {
            while (cursor.hasNext()) {
                Document document = (Document) cursor.next();
                // Access and process the data in the document
                String name = document.getString("name");
                String stud_id = document.getString("id");

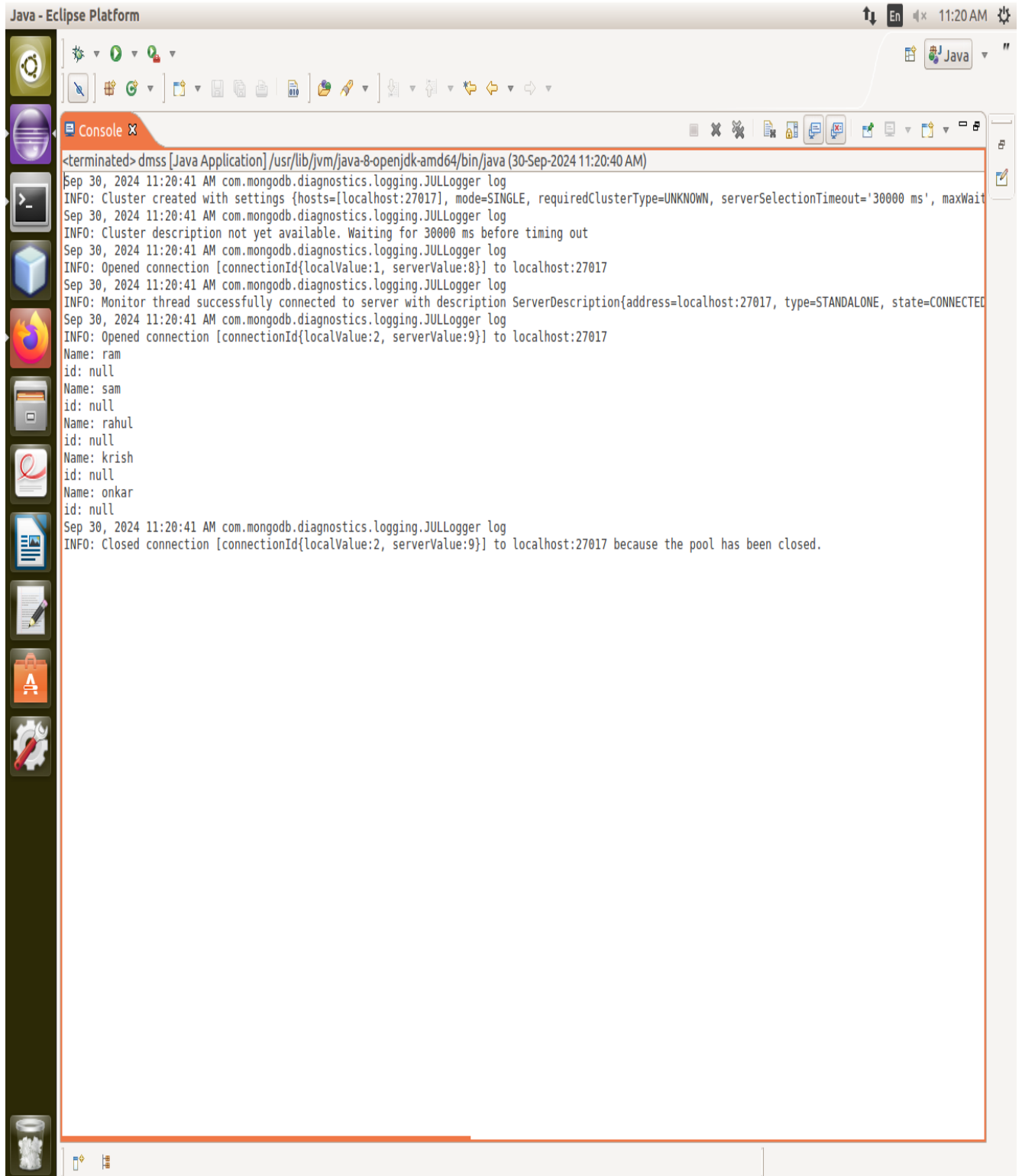
                System.out.println("Name: " + name );
                System.out.println("id: " + stud_id);
            }
        } finally {
            cursor.close(); // Don't forget to close the cursor when done
        }

        // Close the MongoDB client
        mongoClient.close();
    }
}
```

Console

<terminated> dmss [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (30-Sep-2024 11:20:40 AM)

Writable Smart Insert 39:2



```
(base) student@student:~$ mongo
```

```
MongoDB shell version: 2.6.10
```

```
connecting to: test
```

```
> use student11;
```

```
switched to db student11
```

```
> show collections;
```

```
stud
```

```
system.indexes
```

```
> db.stud.find();
```

```
{ "_id" : ObjectId("66fa247f8dd1757a24746b5b"), "stud_id" : 1, "name" : "ram", "math" : 88, "science" : 90 }
```

```
{ "_id" : ObjectId("66fa24b18dd1757a24746b5c"), "stud_id" : 2, "name" : "sam", "math" : 80, "science" : 72 }
```

```
{ "_id" : ObjectId("66fa24d08dd1757a24746b5d"), "stud_id" : 3, "name" : "rahul", "math" : 79, "science" : 98 }
```

```
{ "_id" : ObjectId("66fa25038dd1757a24746b5e"), "stud_id" : 4, "name" : "krish", "math" : 90, "science" : 99 }
```

```
{ "_id" : ObjectId("66fa251e8dd1757a24746b5f"), "stud_id" : 5, "name" : "onkar", "math" : 99, "science" : 88 }
```

```
> █
```

