WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
INFORMATION TECHNOLOGY
2021-22 SEMESTER –I

Advanced Database System

Name: Alaikya S Yemul Roll No: 62

ASSIGNMENT NO: 13

Title: Create an application having database in MongoDB.

Program:

Inserting data:

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package javaapplication2;

import com.mongodb.client.MongoCollection;
import com.mongodb.client.MongoDatabase;
import org.bson.Document;
import com.mongodb.MongoClient;
import com.mongodb.MongoCredential;
public class mongo_class {
      public static void main( String args[] ) {
      // Creating a Mongo client
      MongoClient mongo = new MongoClient( "localhost" , 27017 );
      // Creating Credentials
      MongoCredential credential;
      credential = MongoCredential.createCredential("sampleUser", "student",
         "password".toCharArray());
      System.out.println("Connected to the database successfully");
      // Accessing the database
      MongoDatabase database = mongo.getDatabase("student");
      /* Retrieving a collection*/
      MongoCollection<Document> collection =
database.getCollection("department");
      System.out.println("Collection department selected successfully");
      Document document = new Document("title", "MongoDB")
      .append("id", 1)
      .append("description", "department")
      .append("code", "IT")
      .append("name", "Information Technology");
      collection.insertOne(document);
      System.out.println("Document inserted successfully");
   } }
```

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Retrieving data:

```
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 */
package javaapplication2;

/**
 *
 * @author Admin
 */
import com.mongodb.client.FindIterable;
import com.mongodb.client.MongoCollection;
import com.mongodb.client.MongoDatabase;
import java.util.Iterator;
import org.bson.Document;
import com.mongodb.MongoClient;
import com.mongodb.MongoCredential;
public class Retriveall {
   public static void main( String args[] ) {
       // Creating a Mongo client
      MongoClient mongo = new MongoClient( "localhost" , 27017 );
      // Creating Credentials
      MongoCredential credential;
      credential = MongoCredential.createCredential("sampleUser", "student",
         "password".toCharArray());
      System.out.println("Connected to the database successfully");
      // Accessing the database
      MongoDatabase database = mongo.getDatabase("student");
      // Retrieving a collection
      MongoCollection<Document> collection =
database.getCollection("department");
      System.out.println("Collection sampleCollection selected successfully");
      // Getting the iterable object
      FindIterable<Document> iterDoc = collection.find();
      int i = 1;
      // Getting the iterator
      Iterator it = iterDoc.iterator();
```

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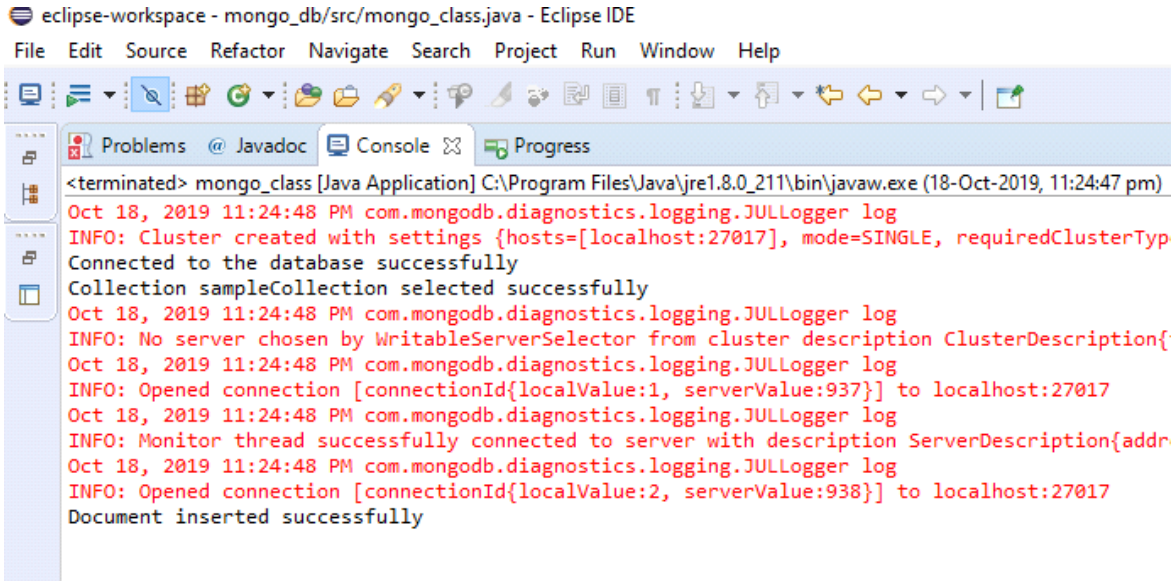
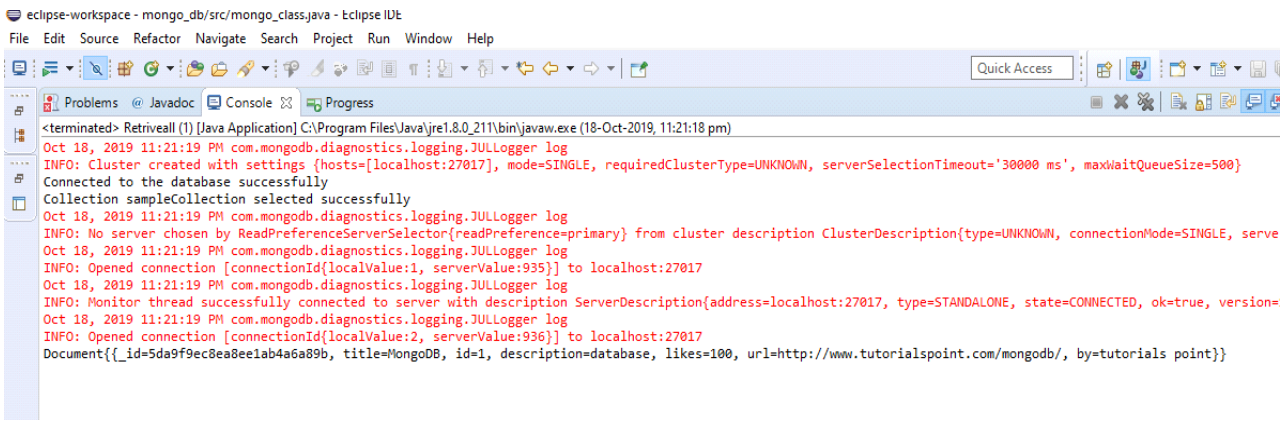
```
while (it.hasNext()) {
        System.out.println(it.next());
      i++;
      }
   }
}
```

Screenshots:

Inserting data:



Retrieving data:



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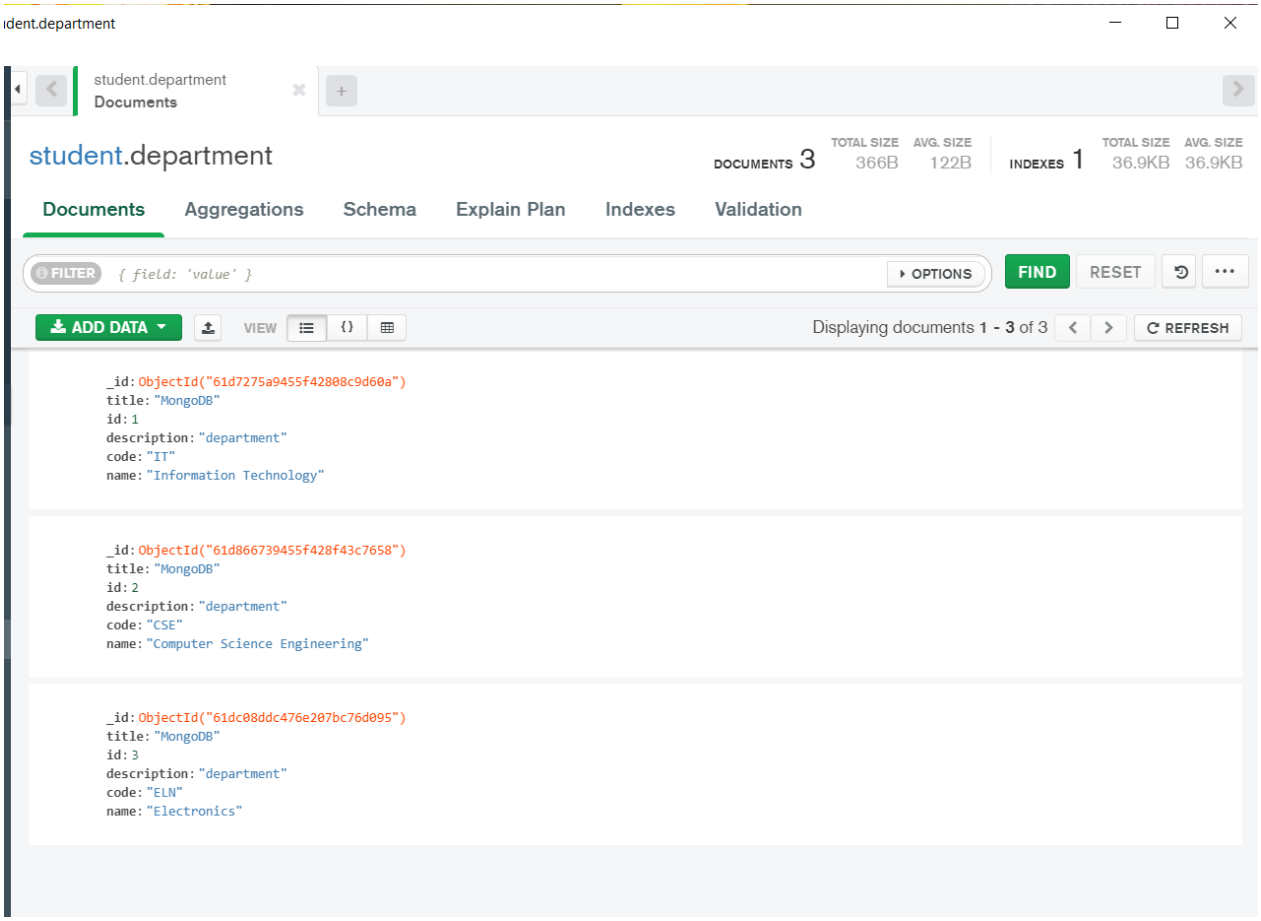
MongoDB Database: