**JAVA PROGRAM TO PERFORM CRUD OPERATIONS BY CONNECTING TO DATABASE USING JDBC**

import java.sql.\*;

public class StudentDatabaseApp {

// JDBC URL, username, and password of MySQL server

private static final String JDBC\_URL = "jdbc:mysql://localhost:3306/your\_database";

private static final String DB\_USER = "your\_username";

private static final String DB\_PASSWORD = "your\_password";

public static void main(String[] args) {

// Step 1: Establishing a Connection

try (Connection connection = DriverManager.getConnection(JDBC\_URL, DB\_USER, DB\_PASSWORD)) {

// Step 2: Creating a Statement

Statement statement = connection.createStatement();

// Step 3: CRUD Operations

// CREATE operation

String createQuery = "INSERT INTO students (id, name, age, department) VALUES (1, 'John', 21, 'Computer Science')";

statement.executeUpdate(createQuery);

System.out.println("Record created successfully.");

// READ operation

String readQuery = "SELECT \* FROM students";

ResultSet resultSet = statement.executeQuery(readQuery);

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

int age = resultSet.getInt("age");

String department = resultSet.getString("department");

System.out.println("ID: " + id + ", Name: " + name + ", Age: " + age + ", Department: " + department);

}

// UPDATE operation

String updateQuery = "UPDATE students SET age = 22 WHERE name = 'John'";

statement.executeUpdate(updateQuery);

System.out.println("Record updated successfully.");

// DELETE operation

String deleteQuery = "DELETE FROM students WHERE name = 'John'";

statement.executeUpdate(deleteQuery);

System.out.println("Record deleted successfully.");

} catch (SQLException e) {

e.printStackTrace();

}

}

}