1.Write a java program to store Department(id, name) object in database, use PreparedStatement and required steps to complete the given problem statement. Note: use database name: departments and table name: department.

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

public class DepartmentDAO {

static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost/departments";

static final String USER = "username";

static final String PASS = "password";

public void saveDepartment(Department department) {

Connection conn = null;

PreparedStatement stmt = null;

try{

Class.forName(JDBC\_DRIVER);

System.out.println("Connecting to database...");

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

String sql = "INSERT INTO department (id, name) VALUES (?, ?)";

stmt = conn.prepareStatement(sql);

stmt.setInt(1, department.getId());

stmt.setString(2, department.getName());

int rowsAffected = stmt.executeUpdate();

System.out.println(rowsAffected + " row(s) affected.");

} catch (SQLException se) {

se.printStackTrace();

} catch (Exception e) {

e.printStackTrace();

} finally {

try {

if (stmt != null) stmt.close();

} catch (SQLException se2) {

}

try {

if (conn != null) conn.close();

} catch (SQLException se) {

se.printStackTrace();

}

}

System.out.println("Department saved successfully.");

}

public static void main(String[] args) {

DepartmentDAO dao = new DepartmentDAO();

Department department = new Department(1, "IT");

dao.saveDepartment(department);

}

}class Department {

private int id;

private String name;

public Department(int id, String name) {

this.id = id;

this.name = name;

}public int getId() {

return id;

}public void setId(int id) {

this.id = id;

}public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

}