Experiment No.8

Code:

```java
import java.sql.*;
import java.util.Scanner;
public class Exp8_JDBC_CURD {
public static void main(String[] args) {
//Create database : "jdbcdb"
//Create table in this database
/*
CREATE TABLE classdata (
RollNo INT(6),
first_name VARCHAR(255),
last_name VARCHAR(255),
);
*/
Scanner sc = new Scanner(System.in);
String url = "jdbc:mysql://localhost:3306/jdbcdb";
String usr = "root";
String psw = "";
int rn = 0;
String fn = "";
String ln = "";
char ctn = 'N';
int ch = 0;
String create = "";
String read = "";
String update = "";
String delete = "";
try {
Class.forName("com.mysql.jdbc.Driver");
Connection con = DriverManager.getConnection(url, usr, psw);
Statement stmt = con.createStatement();
PreparedStatement pstmt = null;
ResultSet rs;
do {
System.out.println("Select CRUD Operation :");
System.out.println(" 1. Create \n 2. Read \n 3. Update \n 4. Delete ");
System.out.println("Enter your choice: ");
ch = sc.nextInt();
switch(ch) {
case 1:
System.out.println("Enter Roll No.: ");
rn = sc.nextInt();
System.out.println("Enter First Name: ");
fn = sc.next();
System.out.println("Enter Last Name: ");
ln = sc.next();
create = "insert into classdata values(?, ?, ?)";
```

```java
pstmt = con.prepareStatement(create);
pstmt.setInt(1, rn);
pstmt.setString(2, fn);
pstmt.setString(3, ln);
pstmt.execute();
System.out.println("Data Inserted Successfully");
break;
case 2:
read = "select * from classdata";
pstmt = con.prepareStatement(read);
rs = pstmt.executeQuery(read);
System.out.println("Roll No. " + "First Name " + "Last Name ");
while(rs.next()){
System.out.println(" " + rs.getInt("rollno") + " " + rs.getString("first_name") + " " +
rs.getString("last_name"));
}
break;
case 3:
System.out.println("Enter first name of student whose roll no is to update: ");
fn = sc.next();
System.out.println("Enter correct roll no.: ");
rn = sc.nextInt();
update = "UPDATE classdata SET RollNo = ? WHERE first_name = ?";
pstmt = con.prepareStatement(update);
pstmt.setInt(1, rn);
pstmt.setString(2, fn);
pstmt.execute();
System.out.println("Data Updated Successfully");
break;
case 4:
System.out.println("Enter roll no of student to delete record: ");
rn = sc.nextInt();
delete = "DELETE FROM classdata WHERE RollNo=" + rn;
pstmt = con.prepareStatement(delete);
pstmt.execute();
System.out.println("Data Deleted Successfully");
break;
default :
System.out.println("Choice Not Matched...!");
}
System.out.println("Do you want to continue : Y/N");
ctn = sc.next().charAt(0);
}while(Character.toUpperCase(ctn)=='Y');
con.close();
System.out.println("Program Terminated...!");
} catch (SQLException e) {
e.printStackTrace();
} catch (ClassNotFoundException e) {
e.printStackTrace();
}}}
```

Output:

Select CRUD Operation :

 1. Create

 2. Read

 3. Update

 4. Delete

Enter your choice: 1

Enter Roll No.:

101

Enter First Name:

Rahul

Enter Last Name:

Sharma

Data Inserted Successfully

Do you want to continue : Y/N