

Welcome

lab9a.java 1 X

lab9a.java > ...

```
1  import java.sql.Connection;
2  import java.sql.DriverManager;
3  import java.sql.ResultSet;
4  import java.sql.SQLException;
5  import java.sql.Statement;
6
7  public class DatabaseConnectivityDemo {
8
9      Run | Debug
10     public static void main(String[] args) {
11         Connection conn = null;
12         Statement stmt = null;
13         ResultSet rs = null;
14         try {
15             // Register JDBC driver
16             Class.forName(className:"com.mysql.jdbc.Driver");
17
18             // Open a connection
19             System.out.println("Connecting to database...");
20             conn = DriverManager.getConnection(url:"jdbc:mysql://hostname:3305/database_name", user:"aniket", password:"password");
21
22             // Execute a query
23             System.out.println("Creating statement...");
24             stmt = conn.createStatement();
25             String sql;
26             sql = "SELECT id, name, age FROM employees";
27             rs = stmt.executeQuery(sql);
28
29             // Extract data from result set
30             while (rs.next()) {
31                 // Retrieve by column name
32                 int id = rs.getInt(columnLabel:"id");
33                 String name = rs.getString(columnLabel:"name");
34                 int age = rs.getInt(columnLabel:"age");
35
36                 // Display values
37                 System.out.print("ID: " + id);
38                 System.out.print(", Name: " + name);
39                 System.out.println(", Age: " + age);
40             }
41             // Clean-up environment
42             rs.close();
43             stmt.close();
44             conn.close();
45         } catch (SQLException se) {
46             // Handle errors for JDBC
47             se.printStackTrace();
48         } catch (Exception e) {
49             // Handle errors for Class.forName
50             e.printStackTrace();
51         } finally {
52             // Finally block used to close resources
53             try {
54                 if (stmt != null) {
55                     stmt.close();
56                 }
57             } catch (SQLException se2) {
58                 // nothing we can do
59             }
60             try {
61                 if (conn != null) {
62                     conn.close();
63                 }
64             } catch (SQLException se) {
65                 se.printStackTrace();
66             }
67         }
68         System.out.println("Goodbye!");
69     }
```