

Assignment – 9

WAP demonstrating the Database Connectivity (MySQL/Oracle) in Java.

```
package JDBC;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

public class DatabaseConnectivityDemo {

    public static void main(String[] args) {
        Connection conn = null;
        Statement stmt = null;
        ResultSet rs = null;
        try {
            // Register JDBC driver
            Class.forName("com.mysql.jdbc.Driver");

            // Open a connection
            System.out.println("Connecting to database...");
            conn =
DriverManager.getConnection("jdbc:mysql://hostname:3305/database_name",
"aniket", "password");

            // Execute a query
            System.out.println("Creating statement...");
            stmt = conn.createStatement();
            String sql;
            sql = "SELECT id, name, age FROM employees";
            rs = stmt.executeQuery(sql);

            // Extract data from result set
            while (rs.next()) {
                // Retrieve by column name
                int id = rs.getInt("id");
                String name = rs.getString("name");
                int age = rs.getInt("age");

                // Display values
                System.out.print("ID: " + id);
                System.out.print(", Name: " + name);
                System.out.println(", Age: " + age);
            }
            // Clean-up environment
            rs.close();
            stmt.close();
            conn.close();
        } catch (SQLException se) {
            // Handle errors for JDBC
            se.printStackTrace();
        } catch (Exception e) {
            // Handle errors for Class.forName
            e.printStackTrace();
        }
    }
}
```

```
    } finally {  
        // finally block used to close resources  
        try {  
            if (stmt != null) {  
                stmt.close();  
            }  
        } catch (SQLException se2) {  
        } // nothing we can do  
        try {  
            if (conn != null) {  
                conn.close();  
            }  
        } catch (SQLException se) {  
            se.printStackTrace();  
        }  
    }  
    System.out.println("Goodbye!");  
}
```

Github link. <https://github.com/adityasable22/pij-assignment-9.git>