

Task: Product Table Operations

Name: Om Ingle Batch: 3rd Year IT Repository: [OmIngle82/JDBC-Assessments](https://github.com/OmIngle82/JDBC-Assessments)

1. Class & Method Explanation

- **ProductCRUD Class:** Manages the lifecycle of product data in the database using JDBC.
- **Scanner:** Captures user input for ID, Name, Price, and Quantity, ensuring the application is dynamic.
- **PreparedStatement:** Used for Insert, Update, and Delete operations. It handles different data types (setInt, setDouble, setString) safely and efficiently.
- **Operations:**
 1. **Create Table:** Defines a product table with columns id, name, price, and quantity.
 2. **Insert:** Adds a new product record using user-provided details.
 3. **Update:** Modifies the stock (quantity) of a specific product based on its ID.
 4. **Delete:** Removes a product record from the database using its ID.

2. Sample Input Used

- **Insert:** ID: 501, Name: Gaming Mouse, Price: 1500.50
- **Update:** Updated quantity for ID 501 to 20.
- **Delete:** Deleted record with ID 501.

3. Console Output Screenshot

eclipse-workspace - DB_Operation1/src/ProductCRUD.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

ProductCRUD.java X

```
1 import java.sql.*;
2 import java.util.Scanner;
3
4 public class ProductCRUD {
5     public static void main(String[] args) {
6
7         // Mandatory Output
8         System.out.println("Name: Om Ingle");
9         System.out.println("Batch: 3rd Year IT");
10        System.out.println("-----");
11
12        String url = "jdbc:mysql://localhost:3306/test_db";
13        String user = "root";
14        String pass = "om@ingle.";
15    }
16}
```

Task List X

Find All Activate...

Outline X

ProductCRUD main(String[]) : void

Problems Javadoc Declaration Console Terminal

<terminated> ProductCRUD [Java Application] C:\Users\Sai\Downloads\eclipse-java-2024-03-R-win32-x86_64\plugins\org.eclipse.jdt.core\hotspot.jre.full.win32.x86_64_17.0.10.v20240120-1143

Name: Om Ingle
Batch: 3rd Year IT

Database Connected.
Table 'product' Ready.
--- Insert Product ---
Enter ID: 501
Enter Name: Gaming Mouse

Writable Smart Insert 1:1:0

17°C Clear 11:29 PM 1/8/2026

