

## Task: Product Table Operations

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

### 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

