

## **JDBC API - Establishing a connection with the database**

1. Create a Java application that allows users to perform basic CRUD (Create, Read, Update, Delete) operations on a Users table in a database.
  - Implement methods to add a new user (username, password, email).
  - Implement methods to retrieve all users or a specific user by ID/username.
  - Implement methods to update user details (e.g., email, password).
  - Implement methods to delete a user.
  - Utilize Statement and PreparedStatement for different operations.
  
2. Develop an application to manage product inventory.
  - Create a Products table with columns like product\_id, name, price, quantity\_in\_stock.
  - Implement functions to add new products, update product details, view available products, and delete products.
  - Consider handling cases like insufficient stock during updates.