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Lab Assignment 1

hibernate

1) Define a JPA entity class named `Product` that maps to a database table named `products`. The `Product` entity should have the following attributes:

- `id` (Primary Key)
- `name`
- `price`

Use appropriate JPA annotations to map the entity to the database table.

-> Set up a Hibernate configuration file (`hibernate.cfg.xml`) to configure the data source, connection properties, and dialect. Ensure that hibernate is set to create/update the database schema automatically.

-> Write Java code to perform CRUD (Create, Read, Update, Delete) operations on the `Product` entity using Hibernate. Implement methods to:

- Insert a new product into the database.
- Retrieve a product by its ID.
- Update the details of a product.
- Delete a product by its ID.