**3. Hibernate CRUD Example**

**Understanding CRUD Operations in Hibernate:**

**• Theory:**

**1.Create (Insert): How to use Hibernate to insert records into a database:-**

**1. Steps for Inserting Data in Hibernate**

**Step 1:** Configure Hibernate (JPA + MySQL)  
 **Step 2:** Create Entity Class  
 **Step 3:** Create Hibernate Utility Class (Session Factory)  
 **Step 4:** Write Code to Insert Data

**2. Read (Select): Fetching data from the database using Hibernate:-**

Fetching data from the database using Hibernate involves the following steps:

Step 1: Configure Hibernate (hibernate.cfg.xml)  
 Step 2: Create Entity Class (Student.java)  
 Step 3: Create Hibernate Utility Class (HibernateUtil.java)  
 Step 4: Use Hibernate to Fetch Data (Retrieve Records)

**3. Update: Modifying existing recordsin the database:-**

1. Steps to Update Data in Hibernate

Step 1: Configure Hibernate (hibernate.cfg.xml)  
 Step 2: Create Entity Class (Student.java)  
 Step 3: Create Hibernate Utility Class (HibernateUtil.java)  
 Step 4: Use Hibernate to Update Records

**4.Delete: Removing recordsfrom the database:-**

1. Steps to Delete a Record in Hibernate

Step 1: Configure Hibernate (hibernate.cfg.xml)  
 Step 2: Create Entity Class (Student.java)  
 Step 3: Create Hibernate Utility Class (HibernateUtil.java)  
 Step 4: Use Hibernate to Delete Records