Project Structure

Step 1: Create Maven Project

- 1. Open your IDE (e.g., IntelliJ IDEA, Eclipse).
- 2. Create a new Maven project.
 - Group ID: com.hibernate
 - Artifact ID: xmlconfigurationEx1

Step 2: Add Dependencies to pom.xml

- 1. mysql-connector-j
- 2. hibernate-core (hibernate-core)

Step-3 Create the Student Class

Create the Student class in the com.hibernate.xmlconfigurationEx1 package:

```
public class Student {
    private int studentId;
    private String firstName;
    private String lastName;

public int getStudentId() { return studentId; }

public void setStudentId(int studentId) { this.studentId = studentId; }

public String getFirstName() { return firstName; }

public void setFirstName(String firstName) { this.firstName = firstName; }

public String getLastName() { return lastName; }

public void setLastName(String lastName) { this.lastName = lastName; }
```

Step 4: Create the Student.hbm.xml File

- Create a resources package under src/main/java if it doesn't already exist.
- 2. In the resources package, create an XML file named Student.hbm.xml with the following content:

Step 5: Create the hibernate.cfg.xml File

</hibernate-configuration>

```
In the same resources package, create an XML file named hibernate.cfg.xml with the following content:
```

Note: Ensure the MySQL database hibernateDB exists, and replace the username and password with your actual MySQL credentials.

Step 6: Create the HibernateUtil Class

Create the HibernateUtil class in the com.hibernate.xmlconfigurationEx1 package:

```
package com.hibernate.xmlconfigurationEx1;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class HibernateUtil {
       private static final SessionFactory sessionFactory();
       private static SessionFactory buildSessionFactory() {
              SessionFactory sessionFactory = null;
              try {
                     Configuration configuration = new Configuration();
                     configuration.configure("resources/hibernate.cfg.xml");
                     sessionFactory = configuration.buildSessionFactory();
              }
              catch (Exception e) { e.printStackTrace(); }
              return sessionFactory;
       }
       public static SessionFactory getSessionFactory() {
              return sessionFactory;
       }
}
Step-7 Now add the below lines of code into App.java class file.
package com.hibernate.xmlconfigurationEx1;
import org.hibernate.HibernateException;
import org.hibernate.Session;
import org.hibernate.Transaction;
public class App
  public static void main( String[] args )
    Student student = new Student();
    student.setStudentId(1);
```

```
student.setFirstName("Kalpesh");
student.setLastName("Patel");

Session session = HibernateUtil.getSessionFactory().openSession();
Transaction tran = null;
try {
    tran = session.beginTransaction();
    session.persist(student);
    tran.commit();

    System.out.println("Student saved successfully...");
} catch (HibernateException e) {
    System.out.println("Error :" + e.getMessage());
}
}
```

Step-7 Right click on App.java file and Run the application