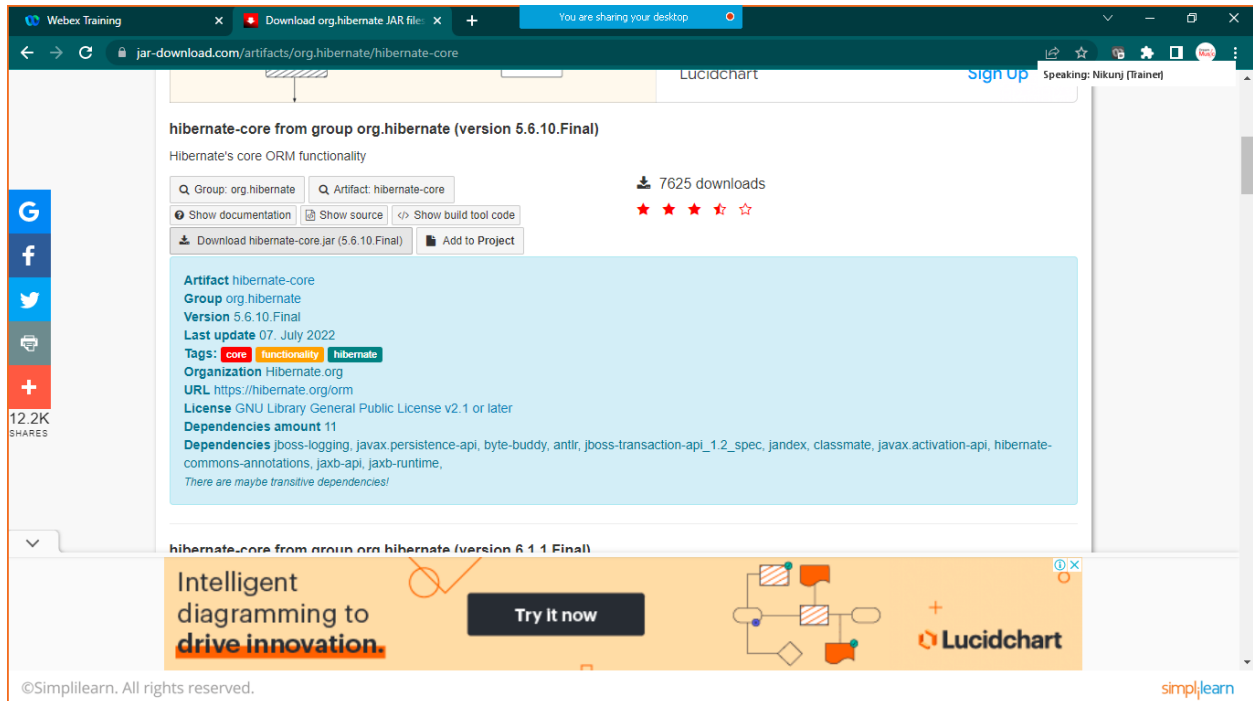
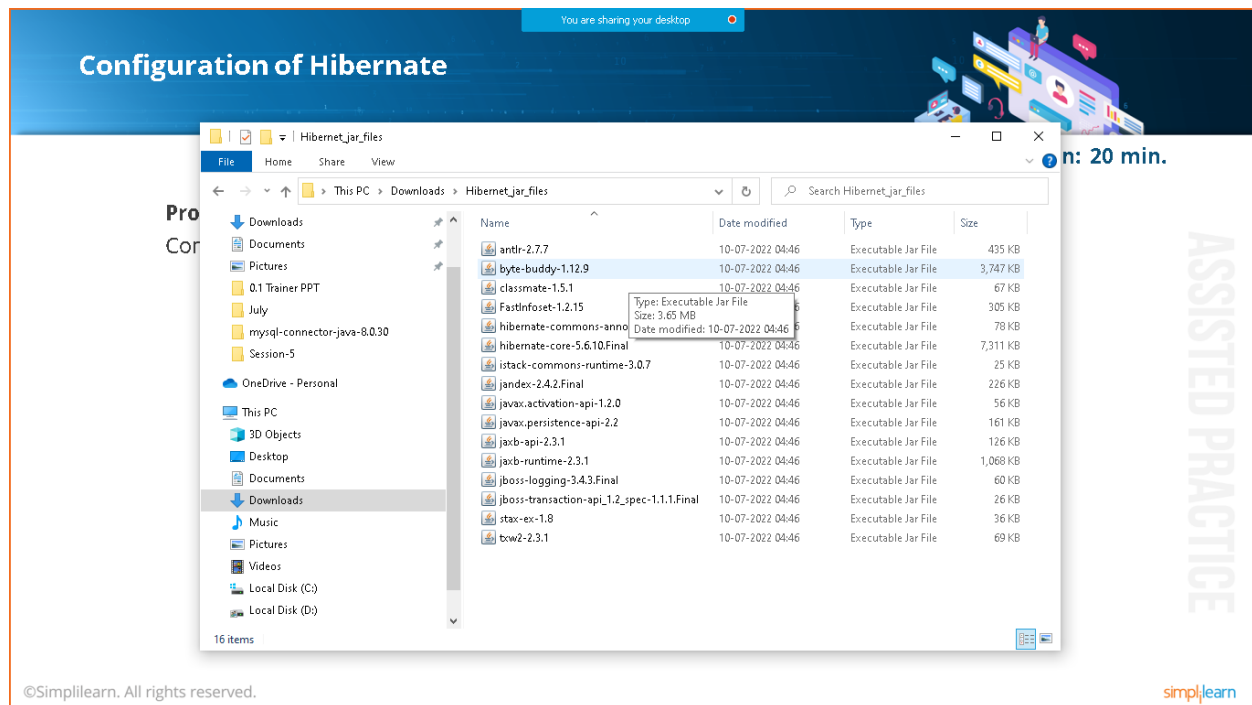


# STEP 1: DOWNLOAD HIBERNATE JAR FILES

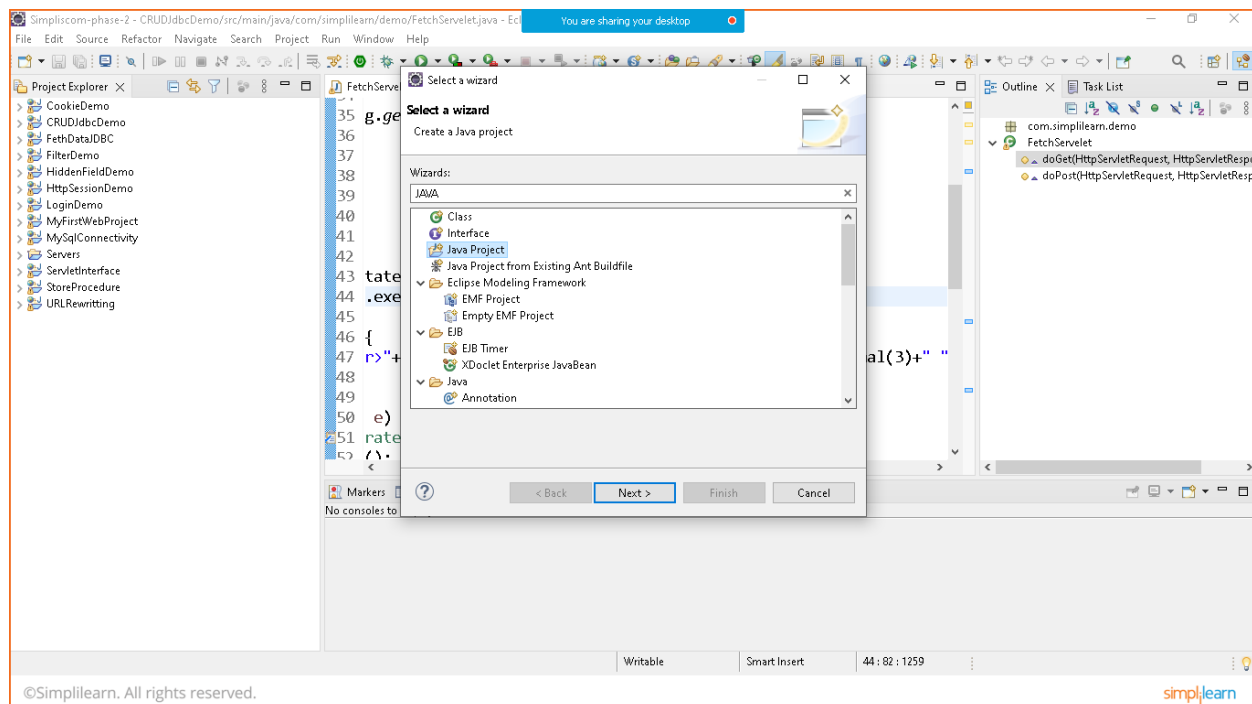
LINK: <https://jar-download.com/artifacts/org.hibernate/hibernate-core>



## STEP: 2 EXTACT FILES TO ONE FOLDER



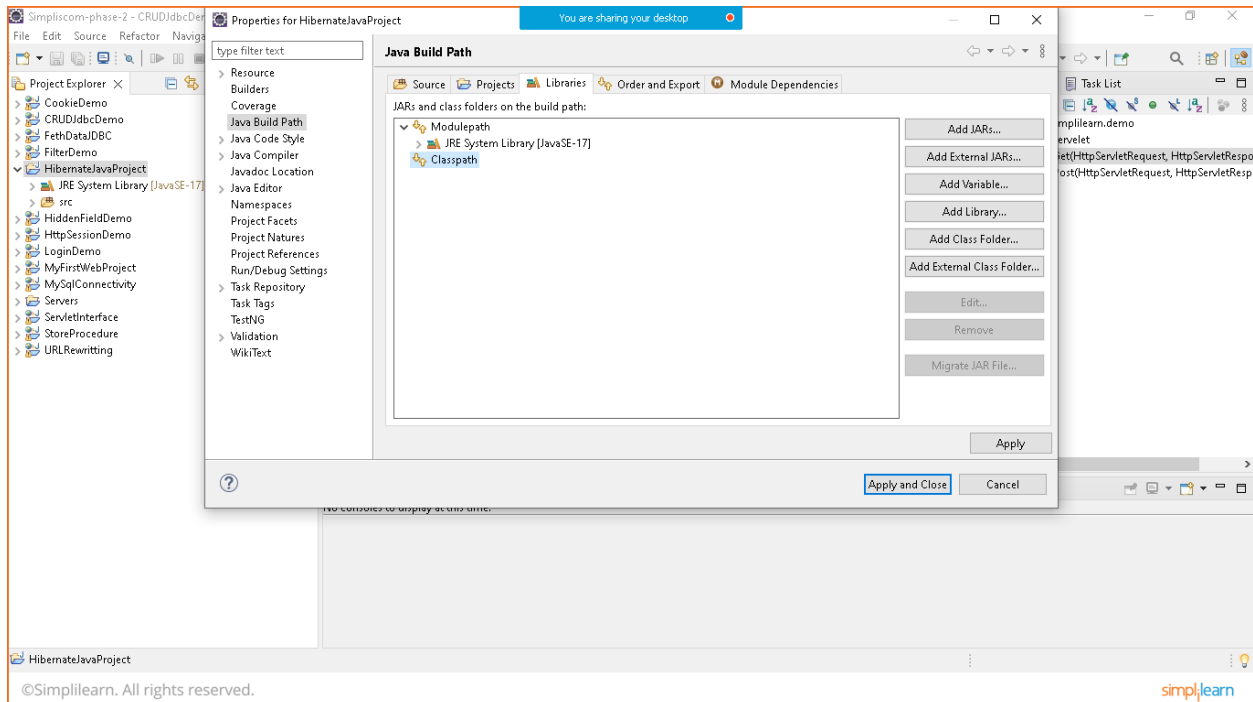
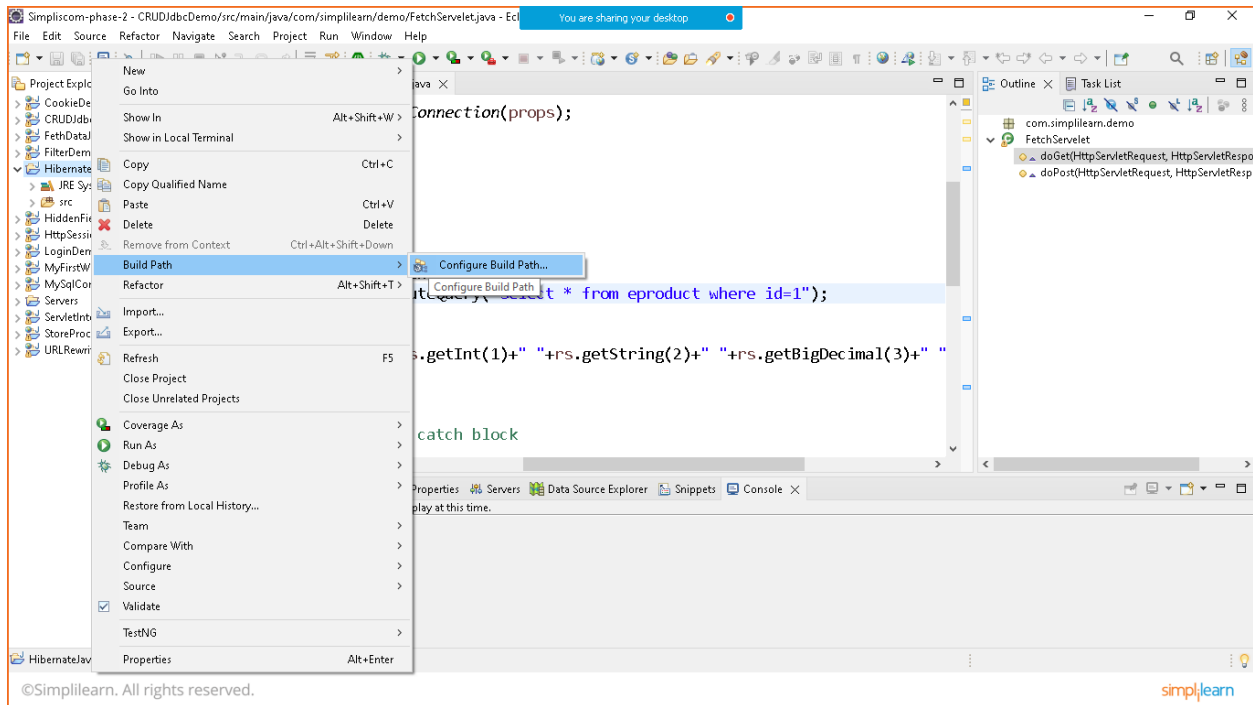
## STEP:3 CREATE SIMPLE JAVA PROJECT



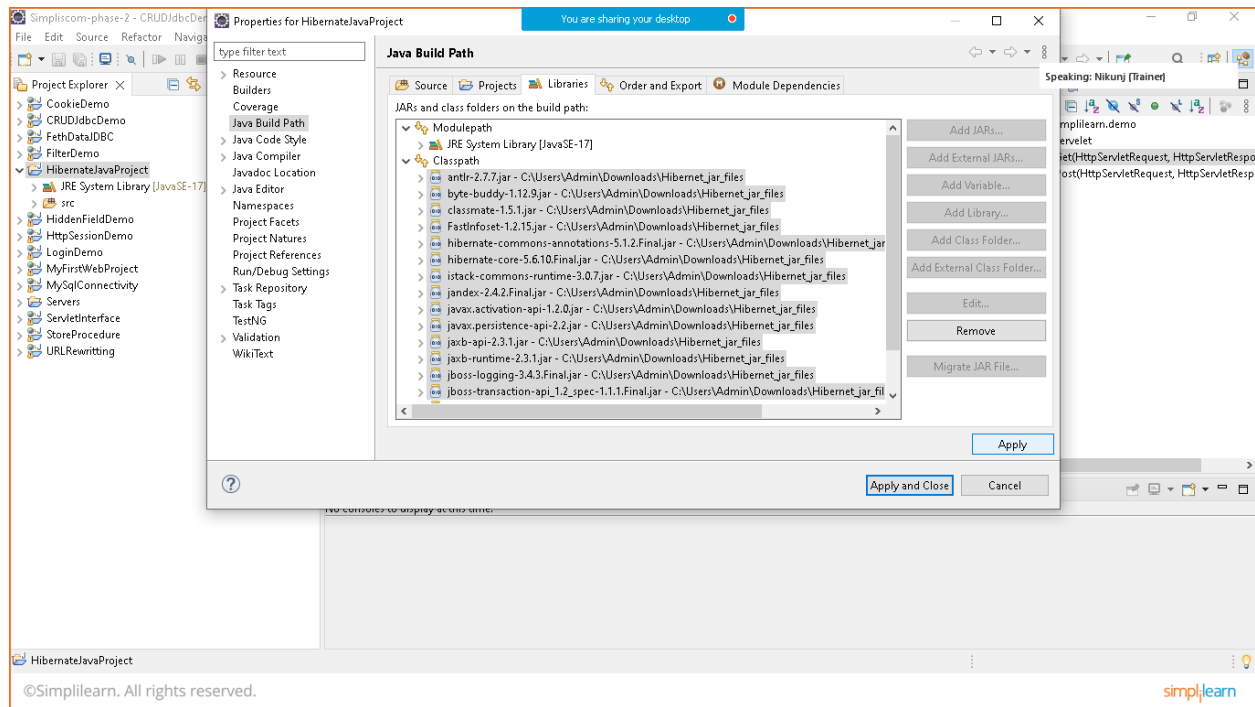
Name: HibernateJavaProjectExample

# STEP4: ADD LIBRARIES

Goto>project>rightclick>buildpath>configure buildpath>select library tab>classpath>clickon add externaljar



Add mysql-connector jar file and hibernate jar files to the library

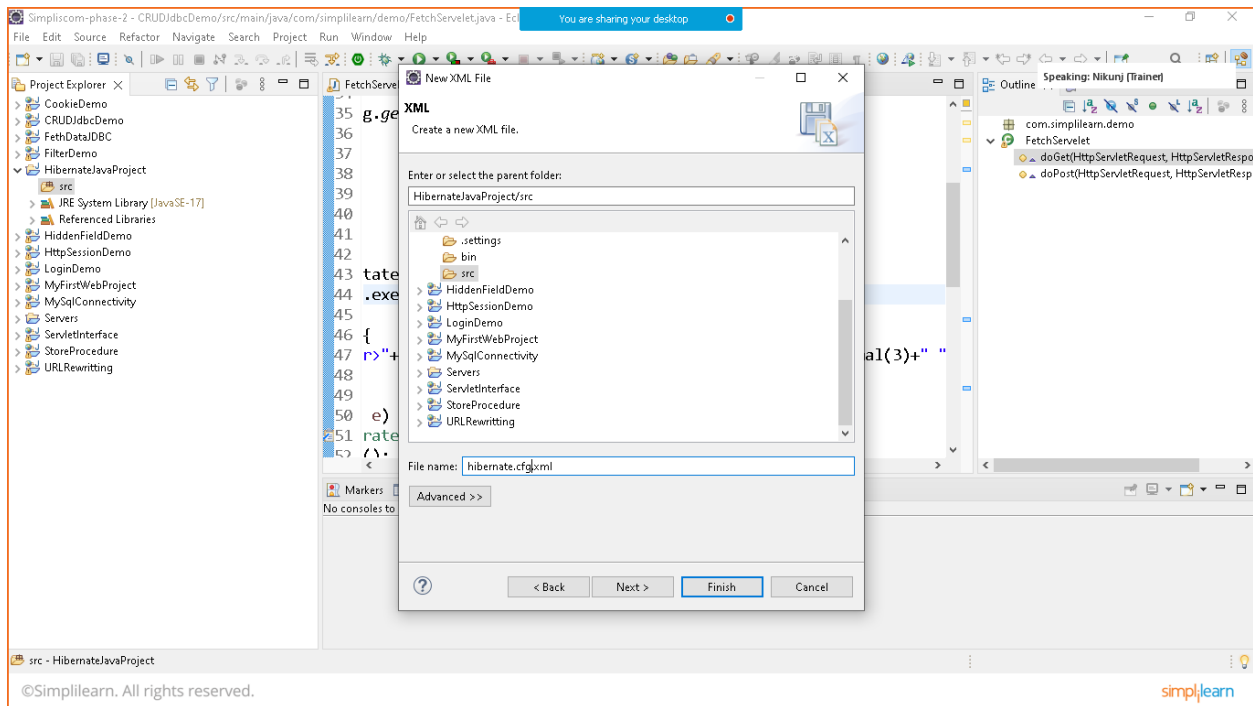
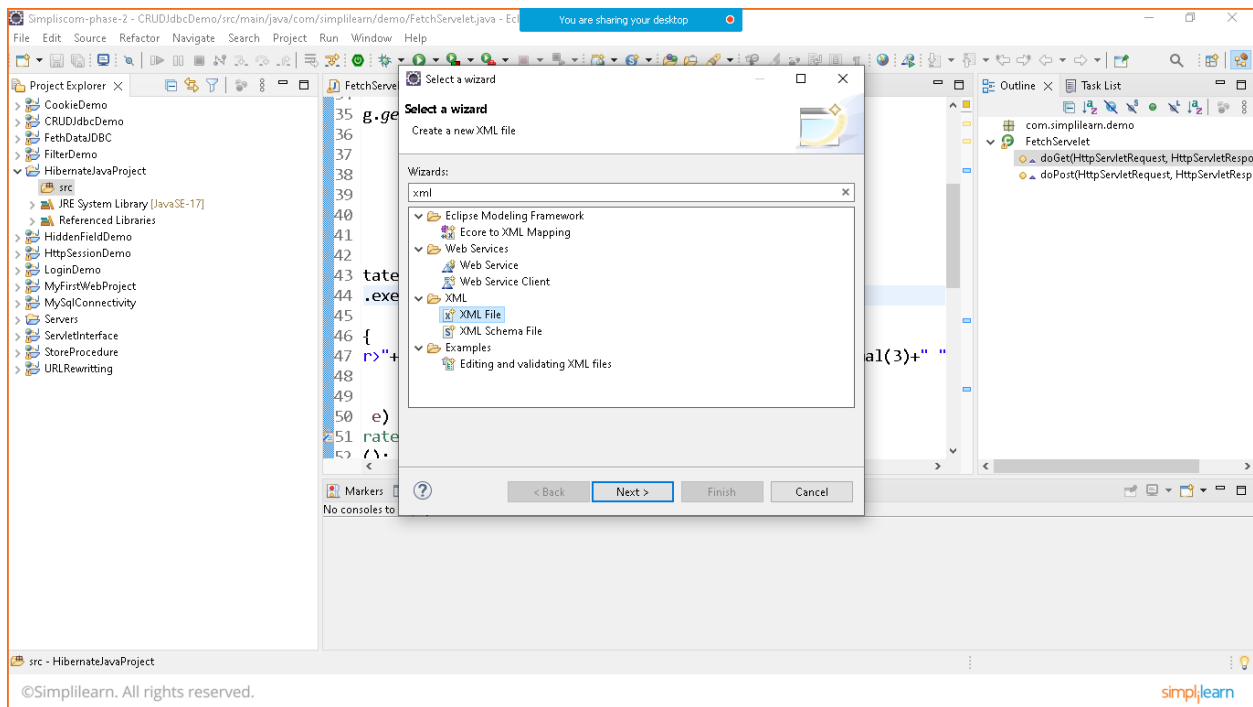


Also add mysql connector

click on apply and apply and close

## STEP:5 PREPARE CONFIGURATION FILE

Right click on >src>new>others>xmlfile>hibernate.cfg.xml

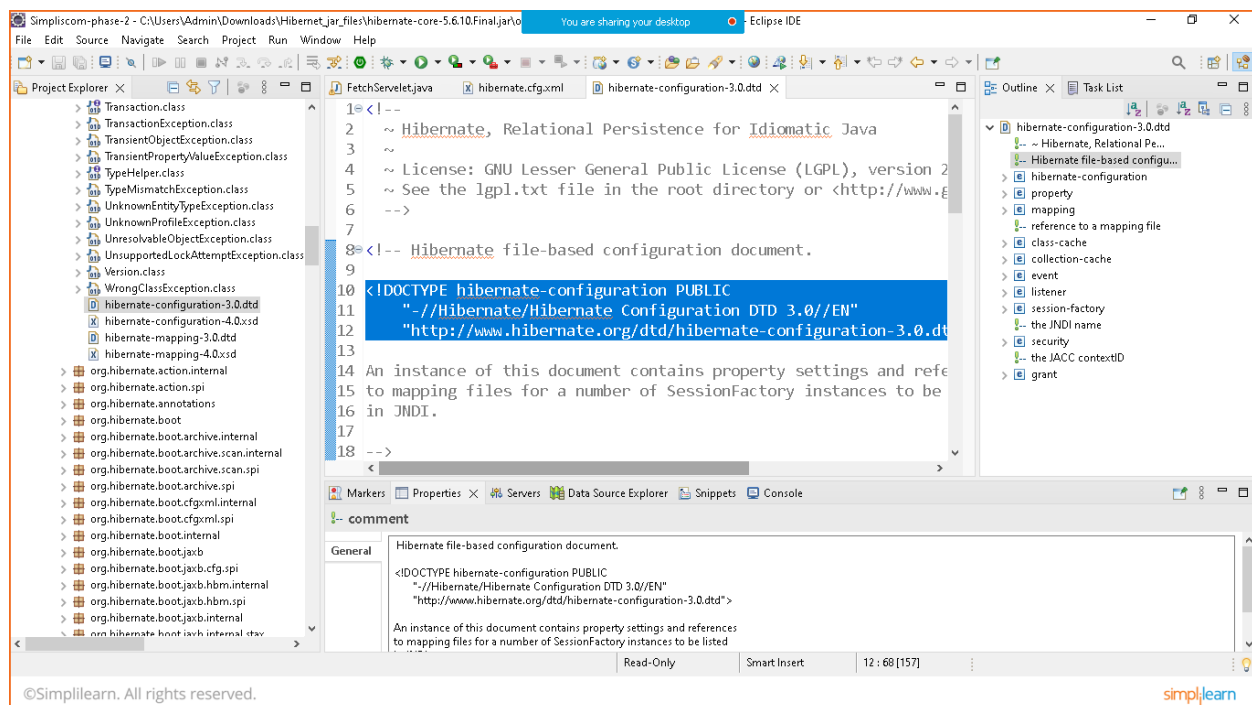
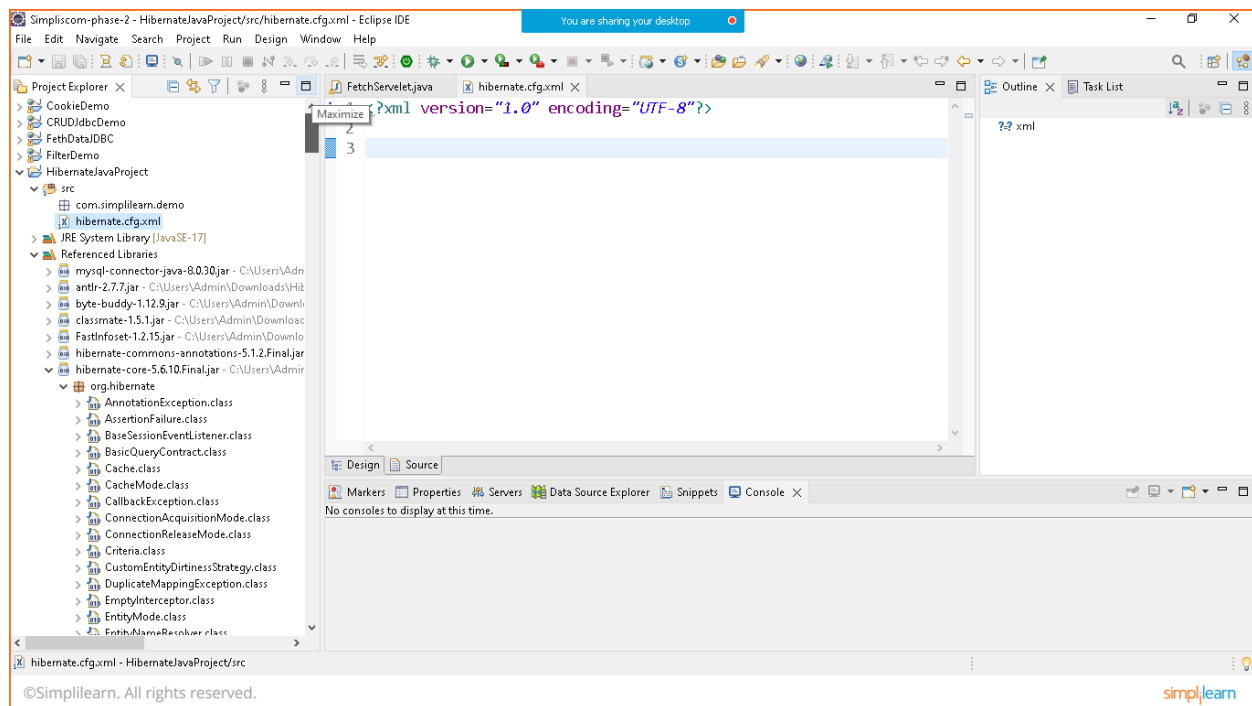


Add hibernate configuration

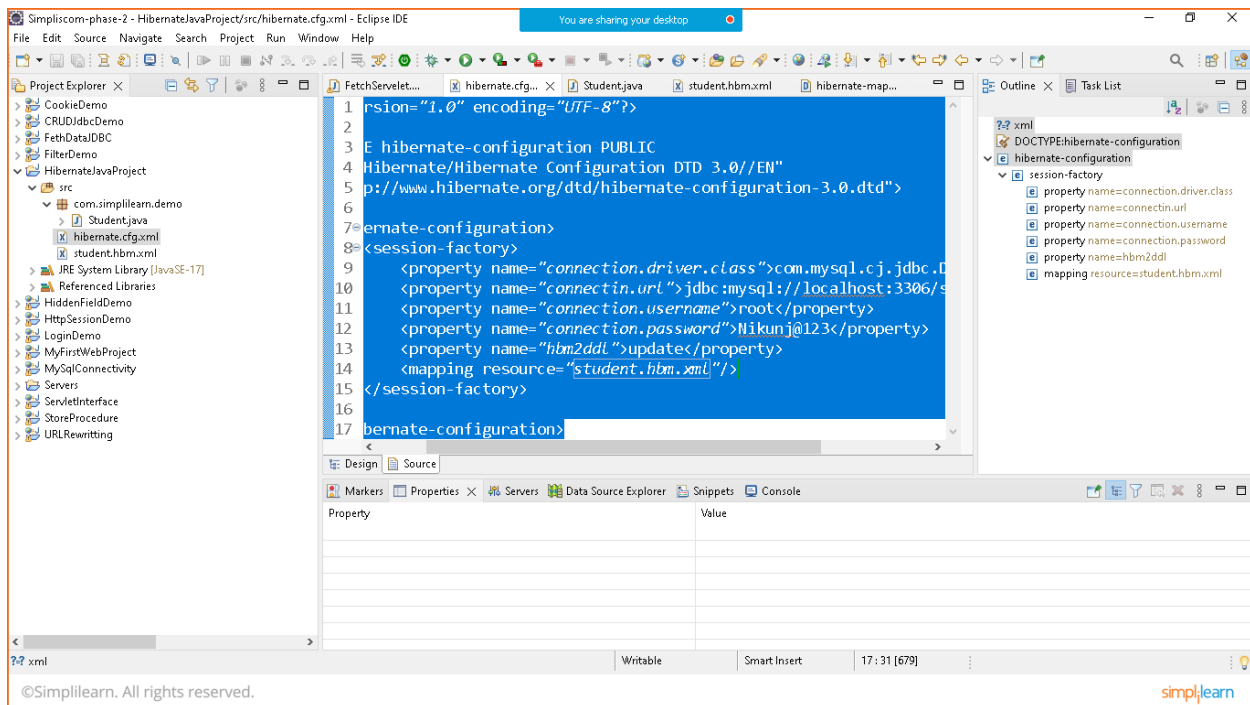
This can be done in two ways either we find solution online or we can copy it from jar files

To copy configuration

Goto reference libraries>hibernatecore-5.6.14.Final.jar>org.hibernate>scroll to bottom and open **hibernate-configuration.dtd** file



Copy the part of configuration as shown above to hibernate.cfg.xml file



## Hibernate.cfg.xml

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE hibernate-configuration PUBLIC  
"-//Hibernate/Hibernate Configuration DTD 3.0//EN"  
"http://www.hibernate.org/dtd/hibernate-configuration-  
3.0.dtd">
```

```
<hibernate-configuration>  
  <session-factory>  
    <property  
name="connection.driver.class">com.mysql.cj.jdbc.Driver</pro  
perty>  
    <property  
name="connection.url">jdbc:mysql://localhost:3306/  
hibernate_student</property>  
    <property  
name="connection.username">root</property>  
    <property  
name="connection.password">Nikunj@123</property>  
    <property name="hbm2ddl.auto">update</property>
```

```
<property  
name="dialect">org.hibernate.dialect.MySQL8Dialect</p  
roperty>
```

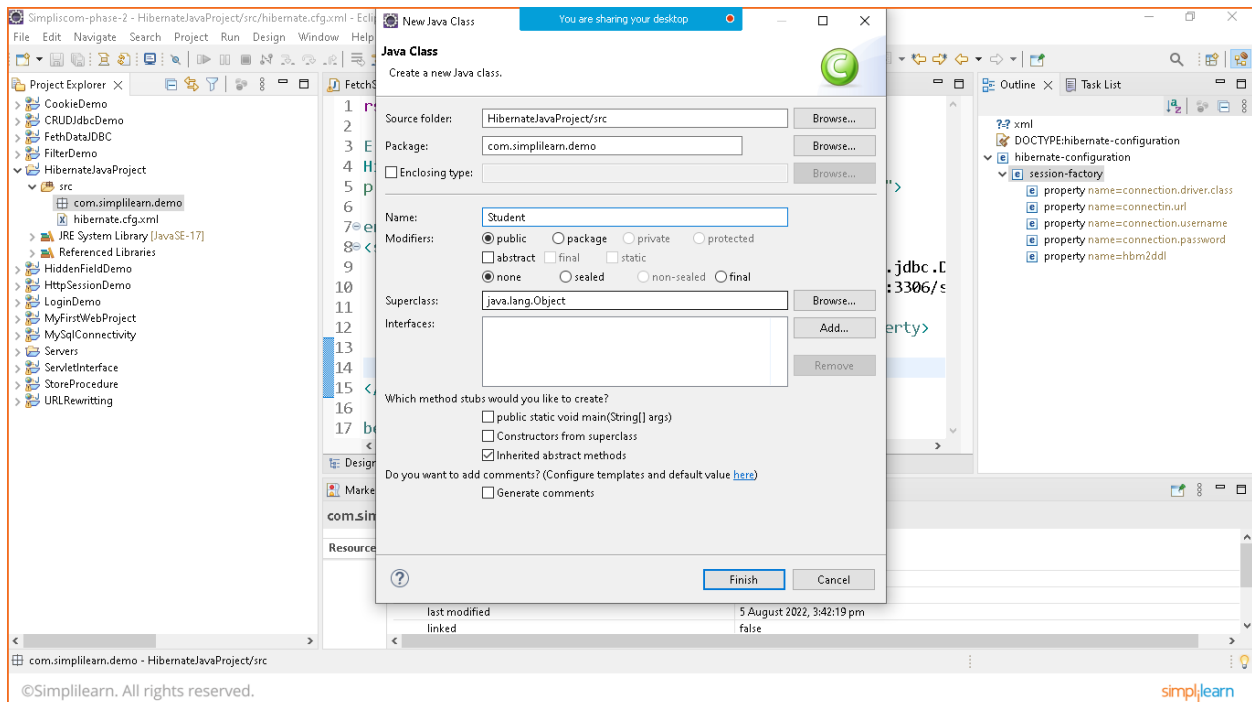
```
<mapping resource="student.hbm.xml"/>  
</session-factory>
```

```
</hibernate-configuration>
```

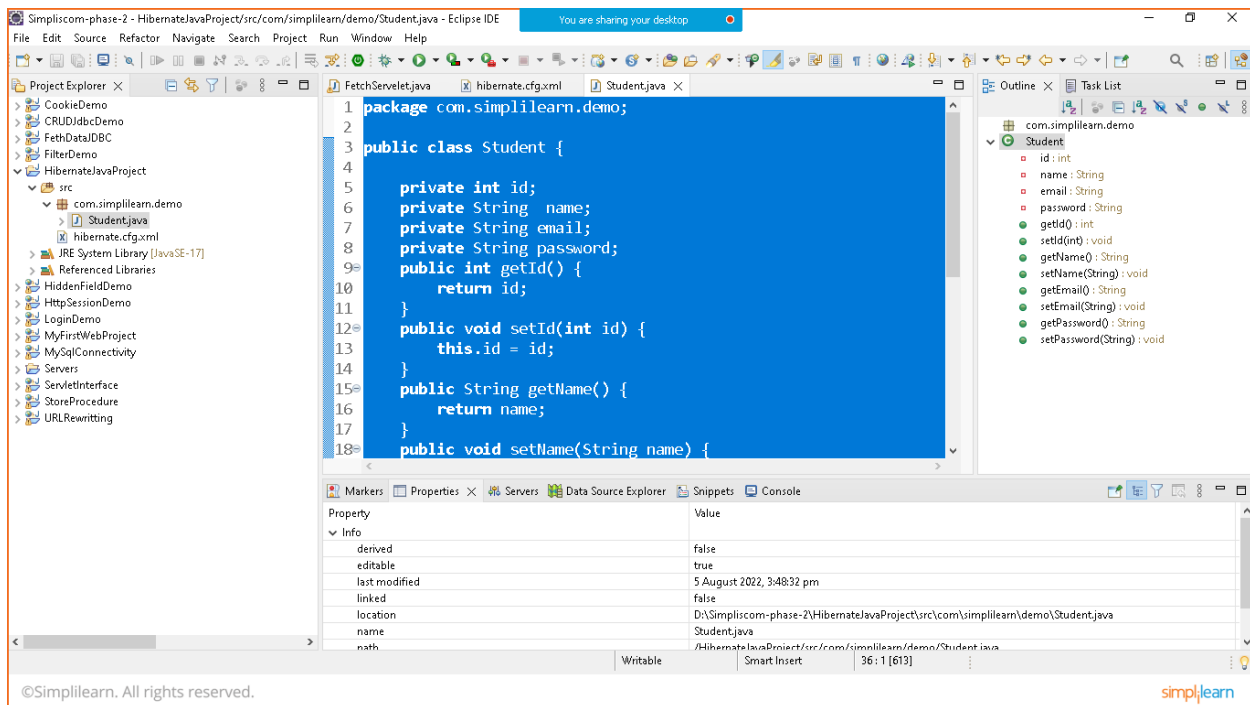
## STEP:6 CREATE POJO BEAN CLASS

Create student class

Src>new>class>Student







```
package com.simplilearn.demo;
```

```
public class Student {
```

```
    private int id;
```

```
    private String name;
```

```
    private String email;
```

```
    private String password;
```

```
    public int getId() {
```

```
        return id;
```

```
    }
```

```
    public void setId(int id) {
```

```
        this.id = id;
```

```
    }
```

```
    public String getName() {
```

```
        return name;
```

```
    }
```

```
    public void setName(String name) {
```

```
        this.name = name;
```

```
    }
```

```
    public String getEmail() {
```

```

        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

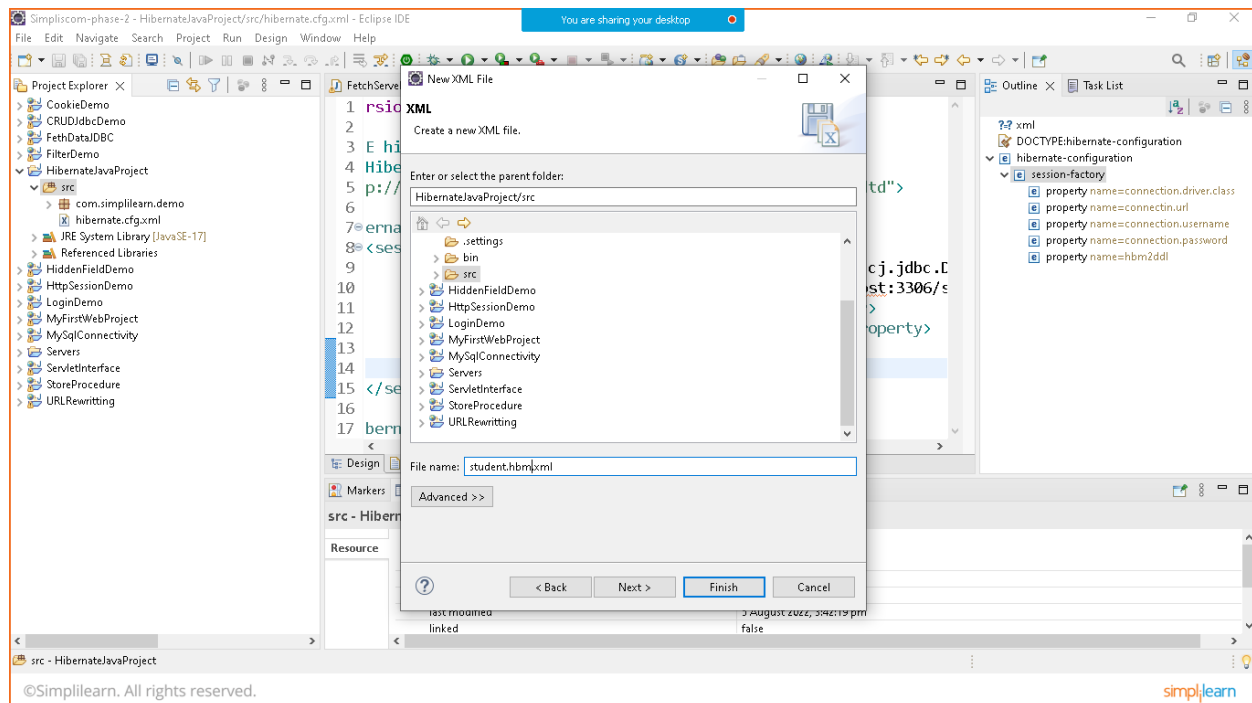
    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }
}

```

## STEP:7 PREPARE MAPPING FOR CLASS

Right click src>new>others>xml>sdtuent.hbm.xml

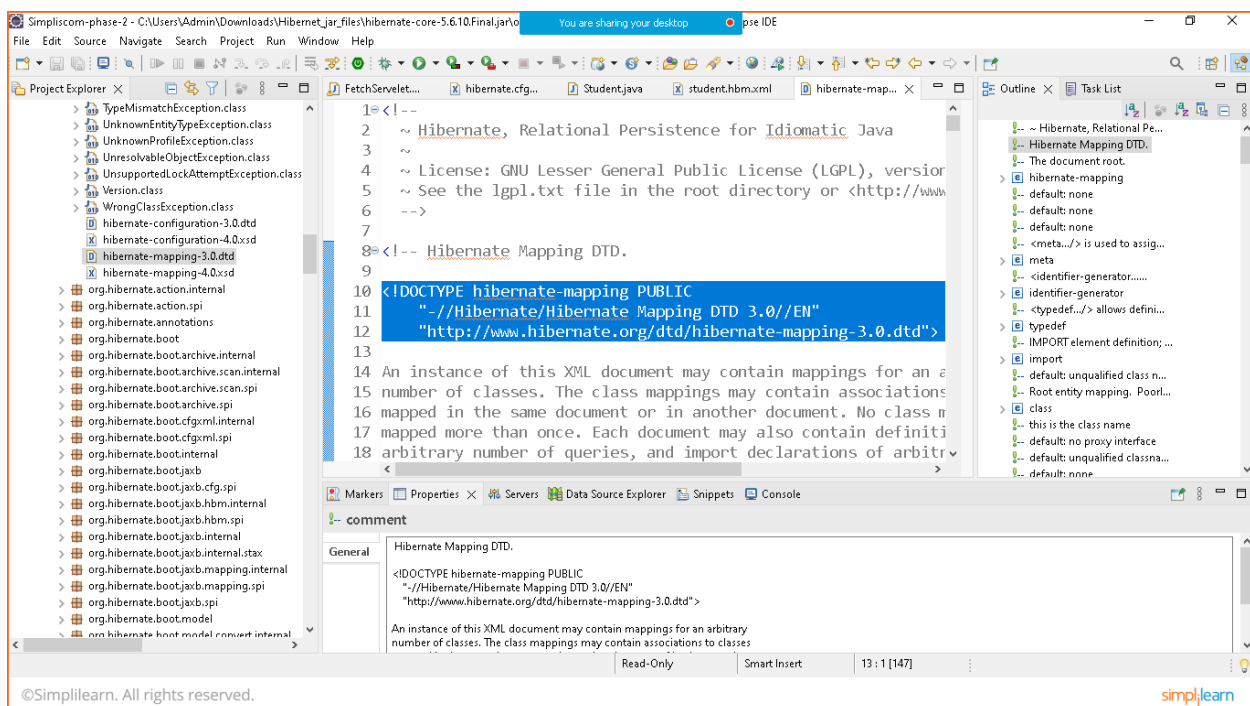


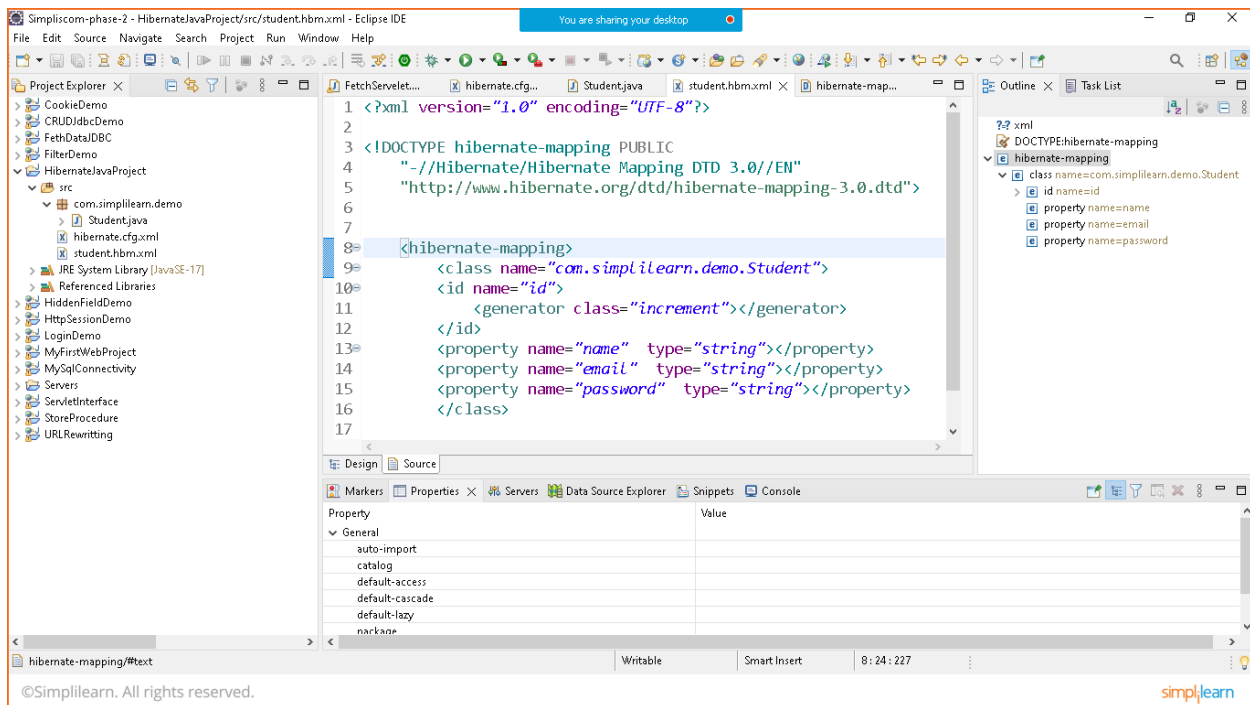
Add hibernate mapping

This can be done in two ways either we find solution online or we can copy it from jar files

To copy configuration

Goto reference libraries>hibernatecore-5.0>org.hibernate>scroll to bottom and open **hibernate-mapping.dtd** file





## Student.hbm.xml

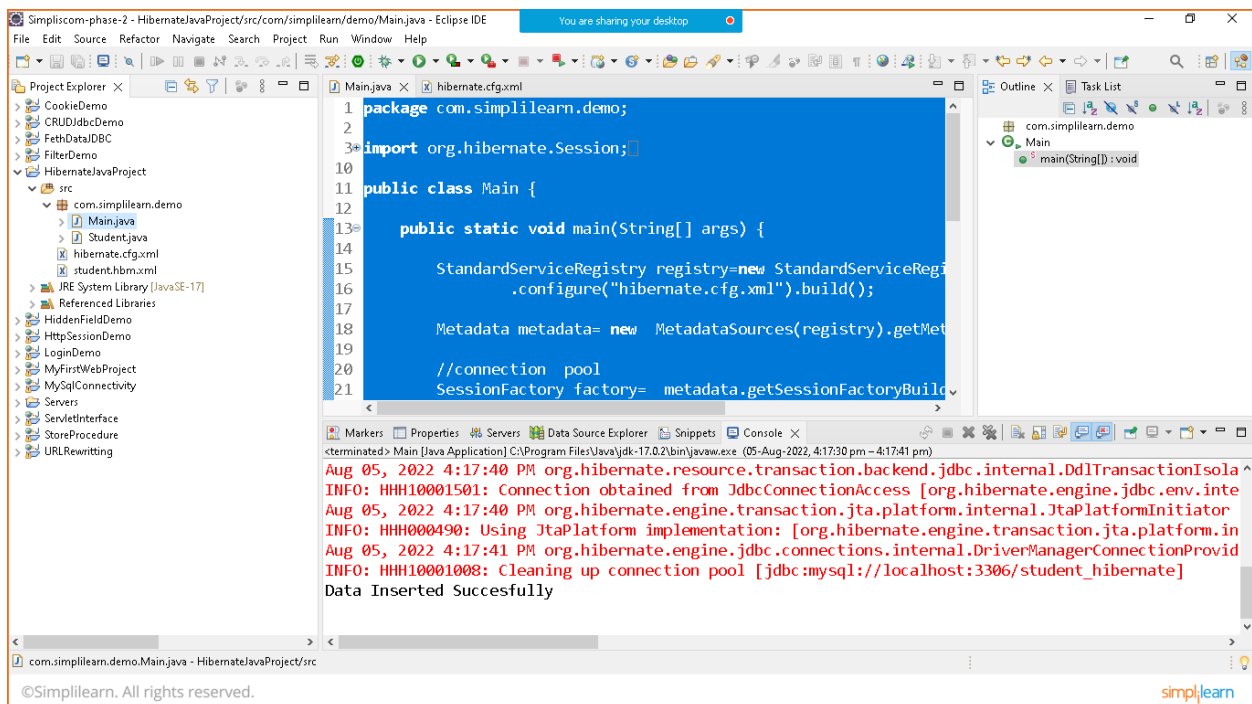
```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE hibernate-mapping PUBLIC
  "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
  "http://www.hibernate.org/dtd/hibernate-mapping-
3.0.dtd">
```

```
<hibernate-mapping>
<class name="com.simplilearn.demo.Student">
<id name="id">
  <generator class="increment"></generator>
</id>
<property name="name" type="string"></property>
<property name="email" type="string"></property>
<property name="password" type="string"></property>

</class>
</hibernate-mapping>
```

# STEP:8 CREATE MAIN CLASS TO CHECK THE OUTPUT



## Main.class

```
package com.simplilearn.demo;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.SessionFactory;
```

```
import org.hibernate.Transaction;
```

```
import org.hibernate.boot.Metadata;
```

```
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;

public class Main {

    public static void main(String[] args) {

        StandardServiceRegistry registry=new StandardServiceRegistryBuilder()
            .configure("hibernate.cfg.xml").build();

        Metadata metadata= new MetadataSources(registry).getMetadataBuilder().build();

        //connection pool
        SessionFactory factory= metadata.getSessionFactoryBuilder().build();

        //let's take database connection to do transection
        //prepare one databse in mysql with name Student_hibernate before execution of
below command

        Session session= factory.openSession();

        Student s1=new Student();
        s1.setName("Nikunj Soni");
        s1.setEmail("nikunj@123");
        s1.setPassword("Nikunj@123");

        Transaction tx= session.beginTransaction();
        session.save(s1);
```

```

        tx.commit();

        //automatically prepare the table and insert the data automatically

    }

    session.close();

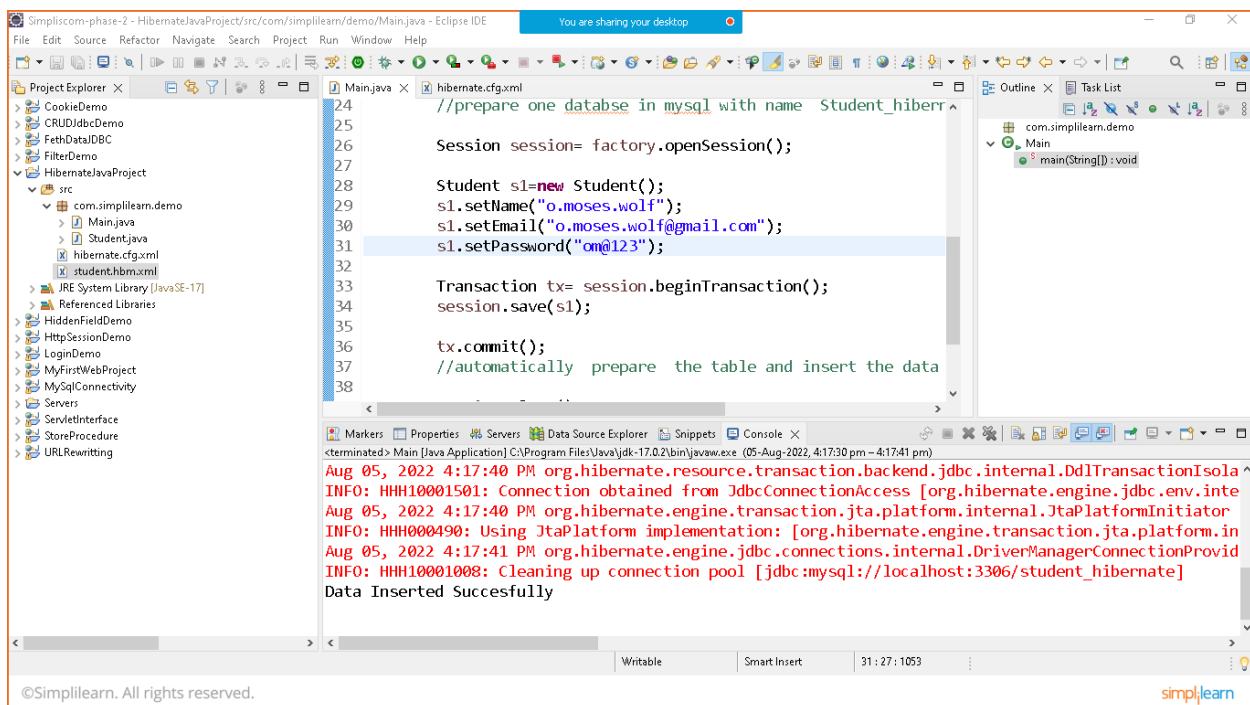
    factory.close();

    System.out.println("Data Inserted Succesfully");

}
}

```

## STEP:9 RUN THE PROGRAM



Check the database

## Configuration of Hibernate

You are sharing your desktop



on: 20 min.

```
MySQL 8.0 Command Line Client
mysql> create database student_hibernate;
Query OK, 1 row affected (0.02 sec)

mysql> select * from student
-> ;
ERROR 1046 (3D000): No database selected
mysql> use student_hibernate;
Database changed
mysql> select * from student;
+----+-----+-----+-----+
| id | name   | email      | password |
+----+-----+-----+-----+
| 1  | Nikunj Soni | nikunj@123 | Nikunj@123 |
+----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from student;
+----+-----+-----+-----+
| id | name   | email      | password |
+----+-----+-----+-----+
| 1  | Nikunj Soni | nikunj@123 | Nikunj@123 |
| 2  | Ronisang   | ronisang@email.com | rs@123 |
+----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

ASSISTED PRACTICE