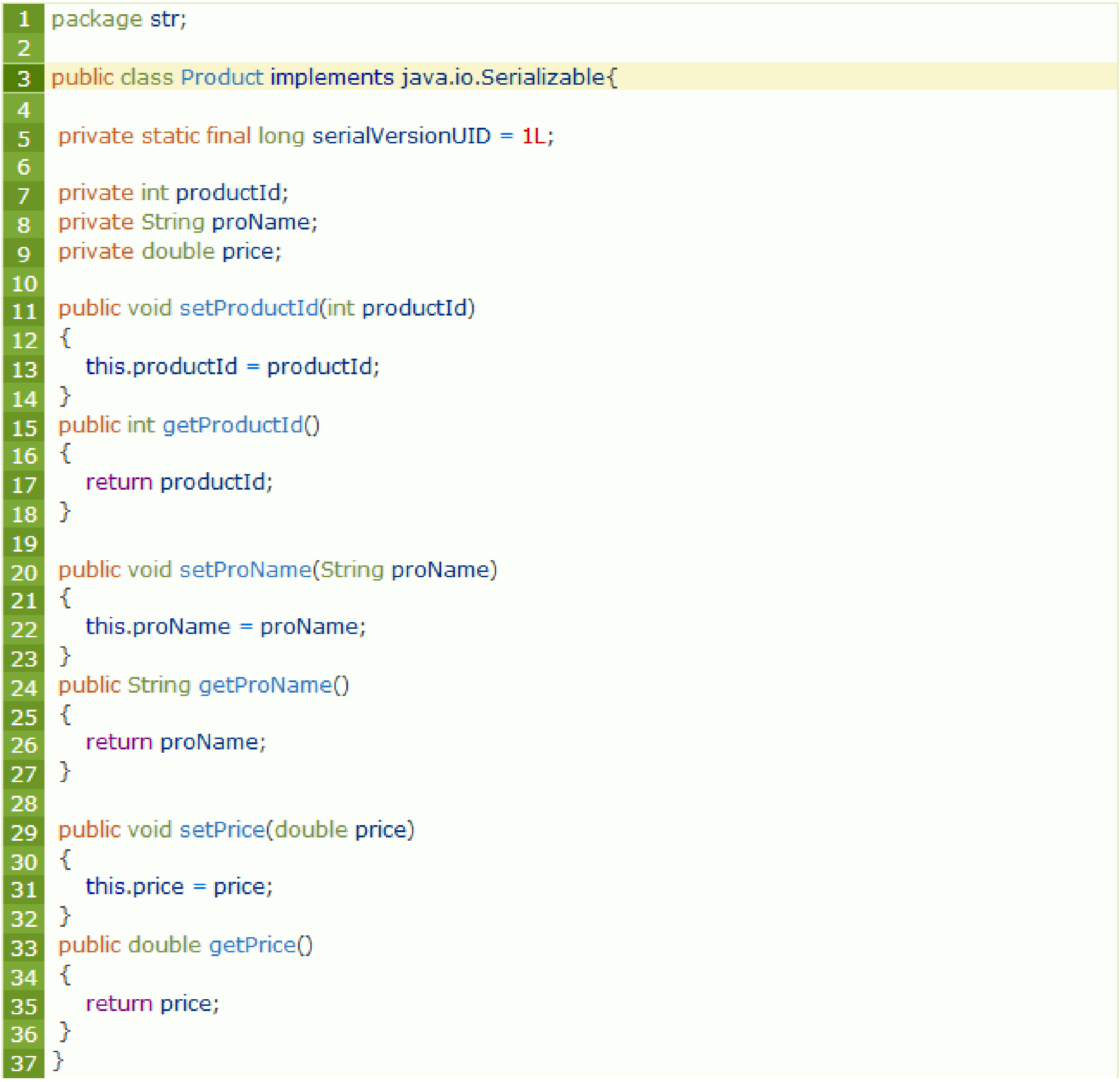
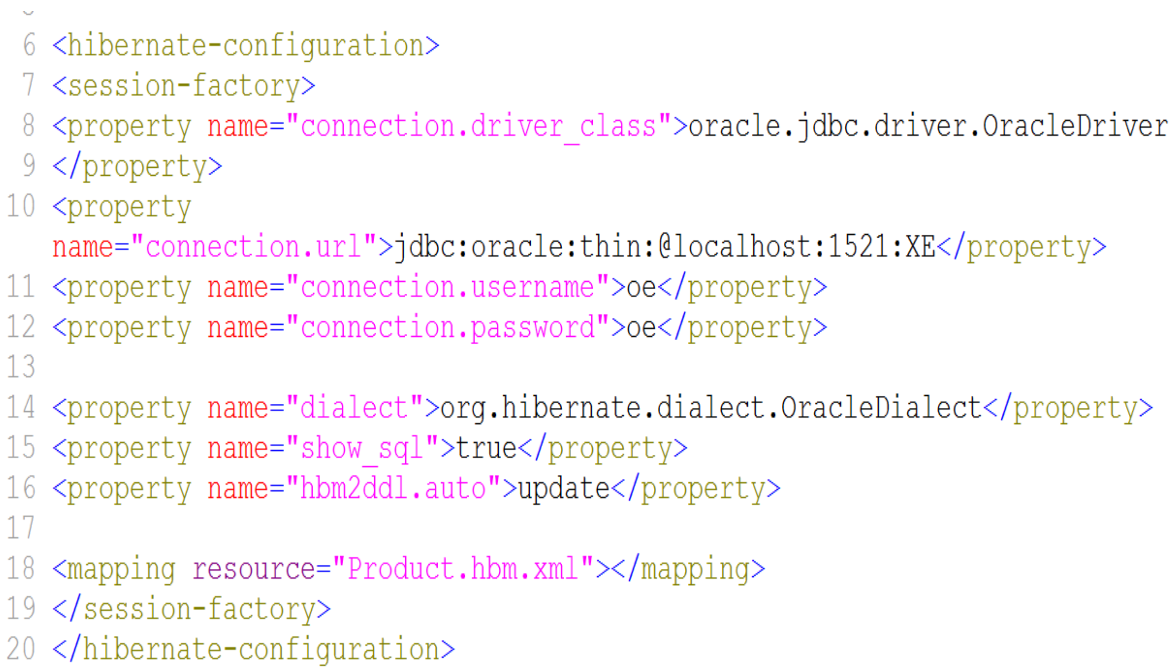
Hibernate Query Language, Using HQL Select Query

Product.java



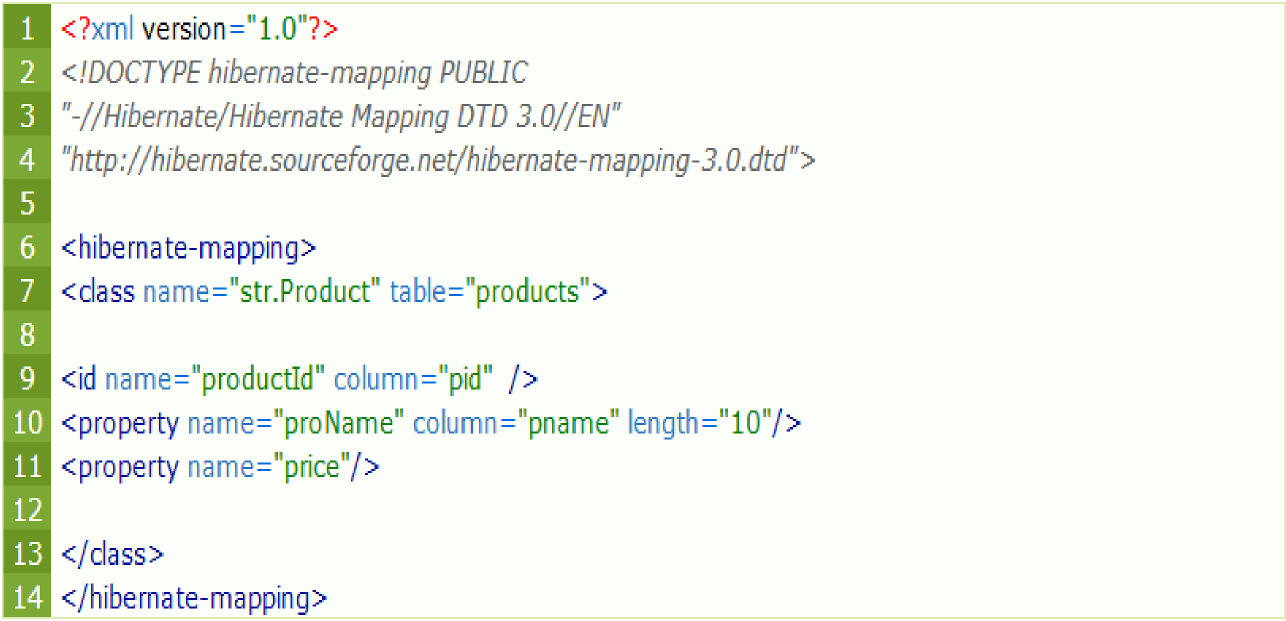
```java
package str;

public class Product implements java.io.Serializable{

 private static final long serialVersionUID = 1L;

 private int productId;
 private String proName;
 private double price;

 public void setProductId(int productId)
 {
     this.productId = productId;
 }
 public int getProductId()
 {
     return productId;
 }

 public void setProName(String proName)
 {
     this.proName = proName;
 }
 public String getProName()
 {
     return proName;
 }

 public void setPrice(double price)
 {
     this.price = price;
 }
 public double getPrice()
 {
     return price;
 }
}
```

hibernate.cfg.xml



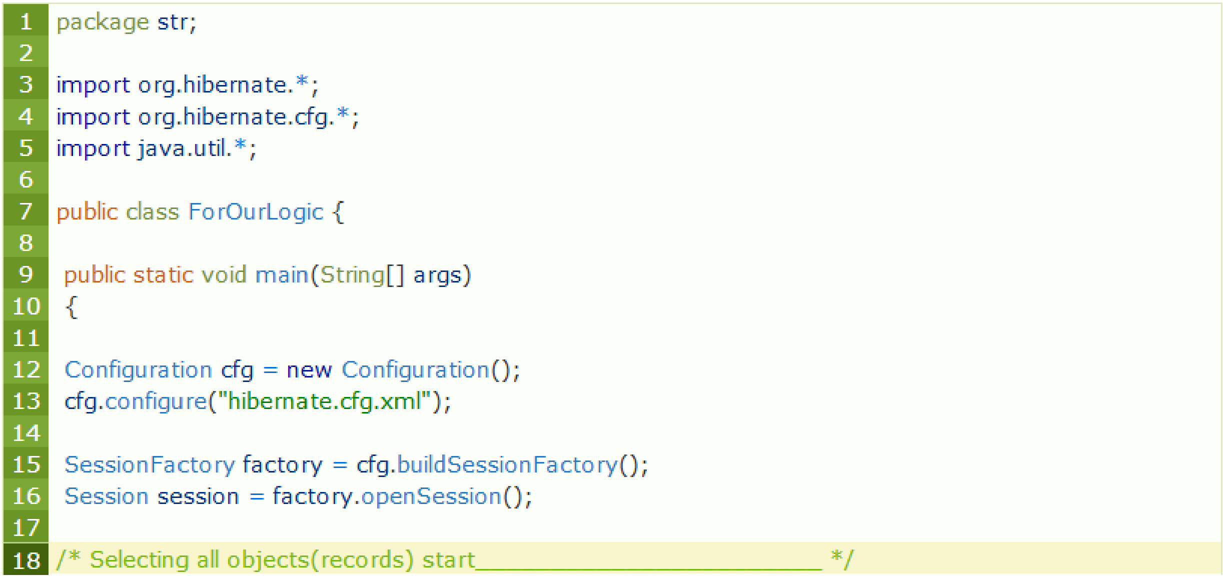
```
<hibernate-configuration>
<session-factory>
<property name="connection.driver_class">oracle.jdbc.driver.OracleDriver
</property>
<property
name="connection.url">jdbc:oracle:thin:@localhost:1521:XE</property>
<property name="connection.username">oe</property>
<property name="connection.password">oe</property>

<property name="dialect">org.hibernate.dialect.OracleDialect</property>
<property name="show_sql">true</property>
<property name="hbm2ddl.auto">update</property>

<mapping resource="Product.hbm.xml"></mapping>
</session-factory>
</hibernate-configuration>
```

Product.hbm.xml

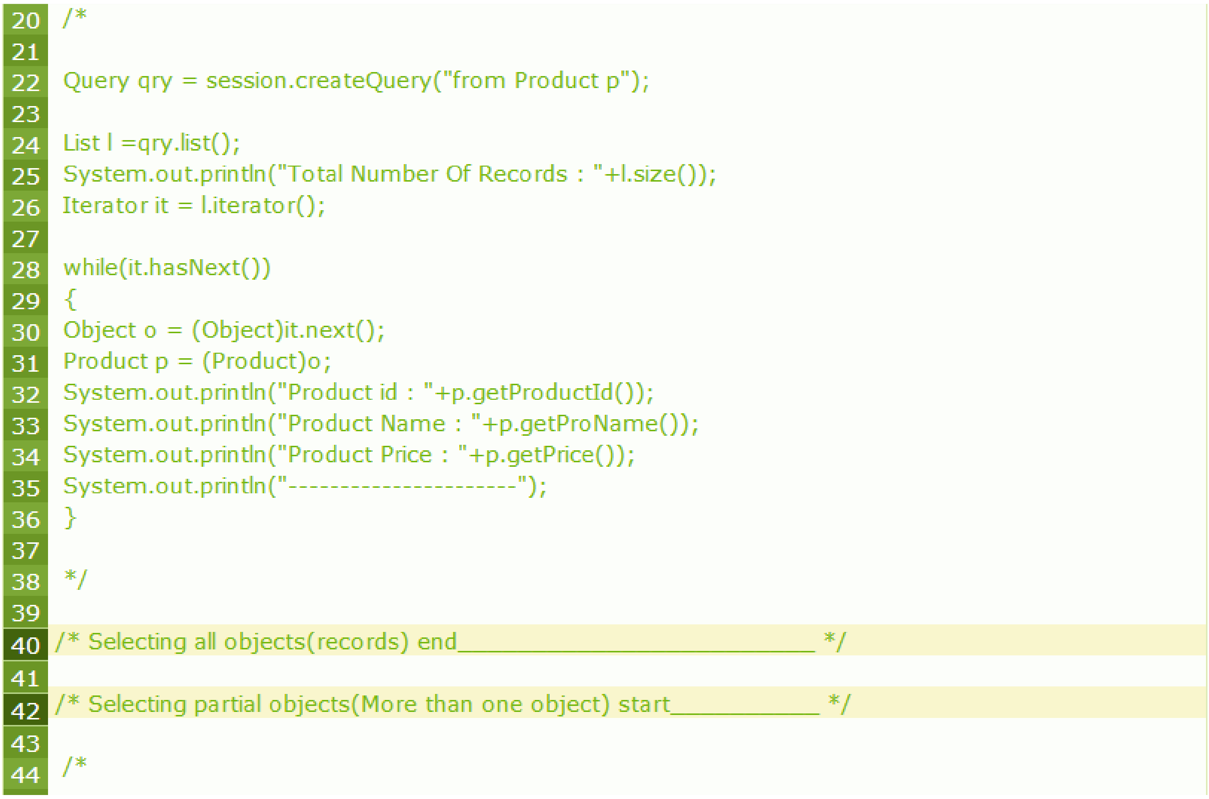


```
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC
"-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping>
<class name="str.Product" table="products">

<id name="productId" column="pid"  />
<property name="proName" column="pname" length="10"/>
<property name="price"/>

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

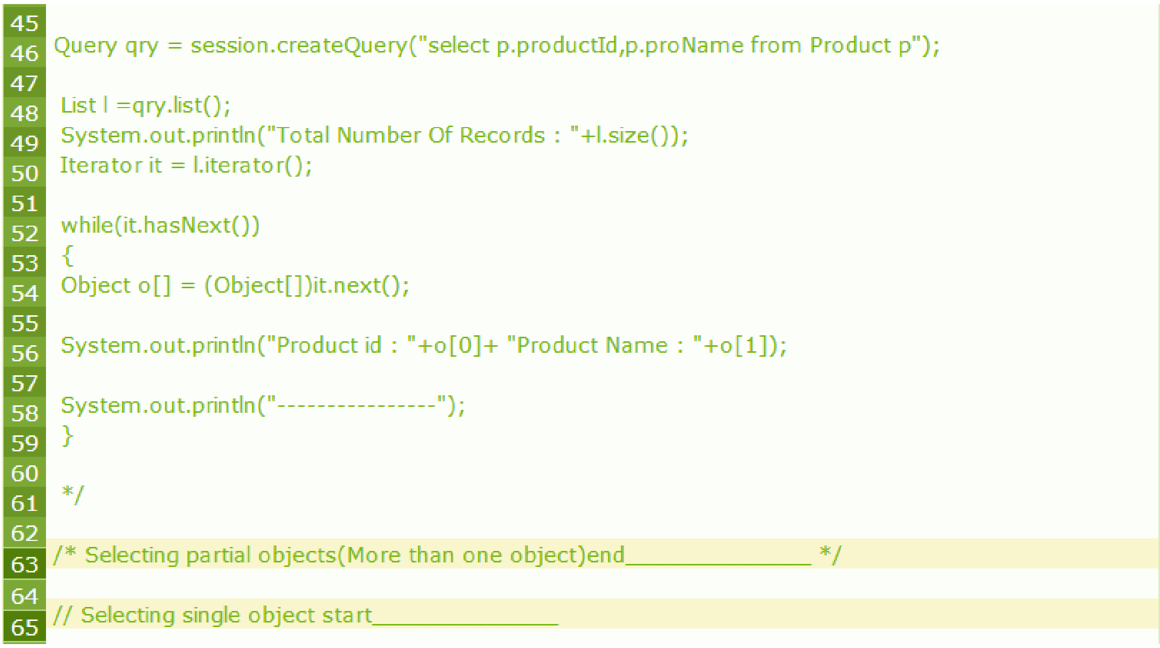
ForOurLogic.java



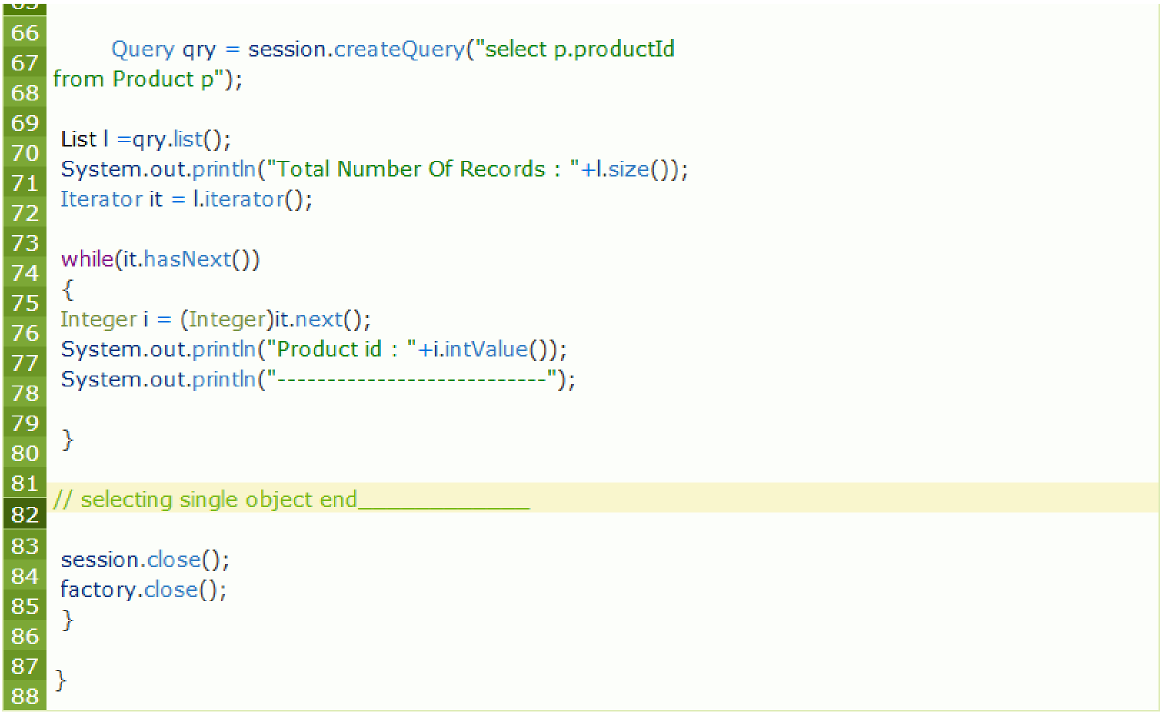
```
package str;

import org.hibernate.*;
import org.hibernate.cfg.*;
import java.util.*;

public class ForOurLogic {

 public static void main(String[] args)
 {

 Configuration cfg = new Configuration();
 cfg.configure("hibernate.cfg.xml");

 SessionFactory factory = cfg.buildSessionFactory();
 Session session = factory.openSession();

/* Selecting all objects(records) start_____________________________ */
```



```
 /*

 Query qry = session.createQuery("from Product p");

 List l =qry.list();
 System.out.println("Total Number Of Records : "+l.size());
 Iterator it = l.iterator();

 while(it.hasNext())
 {
 Object o = (Object)it.next();
 Product p = (Product)o;
 System.out.println("Product id : "+p.getProductId());
 System.out.println("Product Name : "+p.getProName());
 System.out.println("Product Price : "+p.getPrice());
 System.out.println("----------------------");
 }

 */

/* Selecting all objects(records) end______________________________ */

/* Selecting partial objects(More than one object) start____________ */

 /*
```



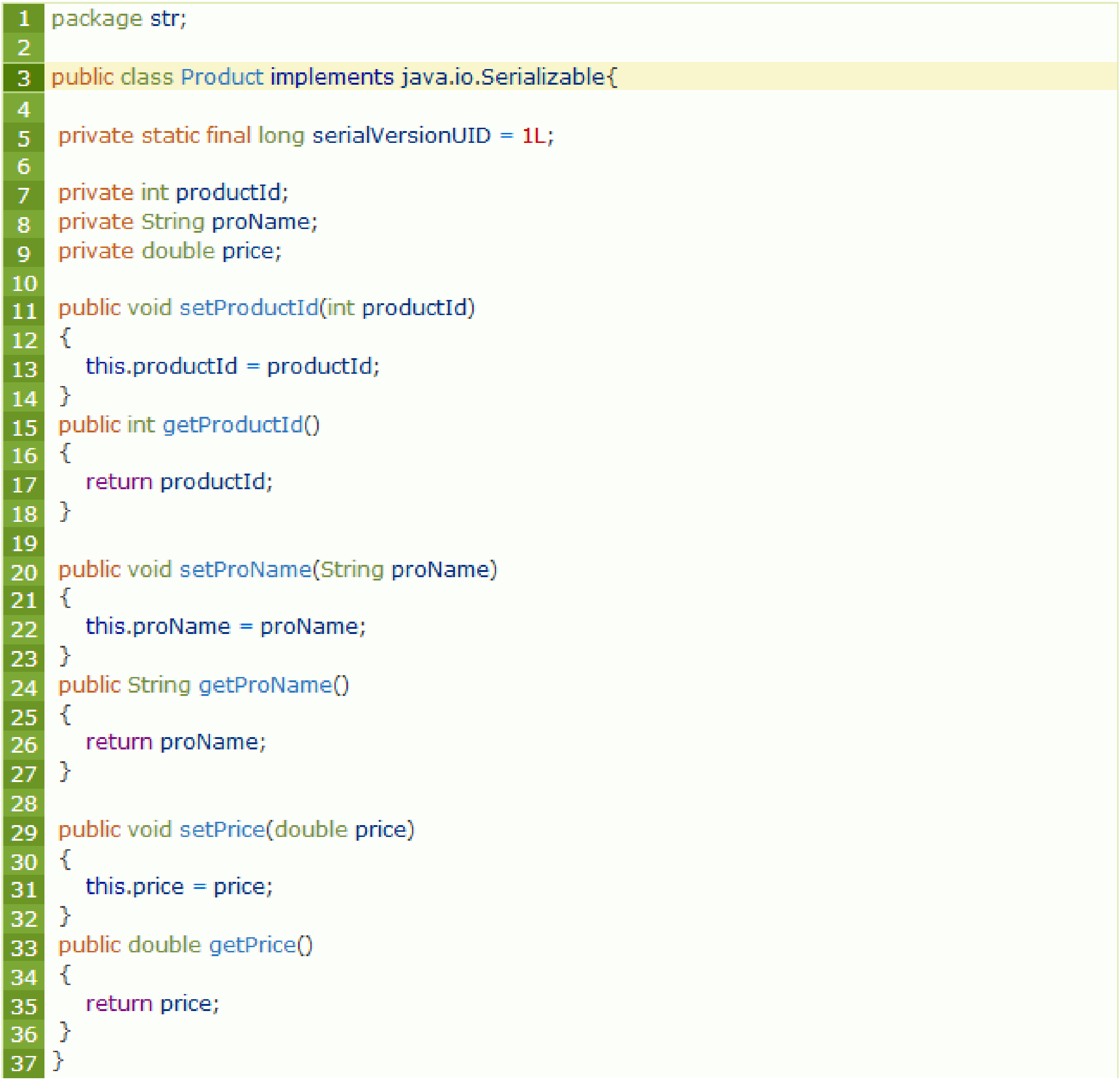
```

Query qry = session.createQuery("select p.productId,p.proName from Product p");

 List l =qry.list();
 System.out.println("Total Number Of Records : "+l.size());
 Iterator it = l.iterator();

 while(it.hasNext())
 {
 Object o[] = (Object[])it.next();

 System.out.println("Product id : "+o[0]+ "Product Name : "+o[1]);

 System.out.println("----------------");
 }

 */

/* Selecting partial objects(More than one object)end_______________ */

// Selecting single object start_______________
```



```

        Query qry = session.createQuery("select p.productId
from Product p");

 List l =qry.list();
 System.out.println("Total Number Of Records : "+l.size());
 Iterator it = l.iterator();

 while(it.hasNext())
 {
 Integer i = (Integer)it.next();
 System.out.println("Product id : "+i.intValue());
 System.out.println("---------------------------");

 }
// selecting single object end______________

 session.close();
 factory.close();
 }

}
```

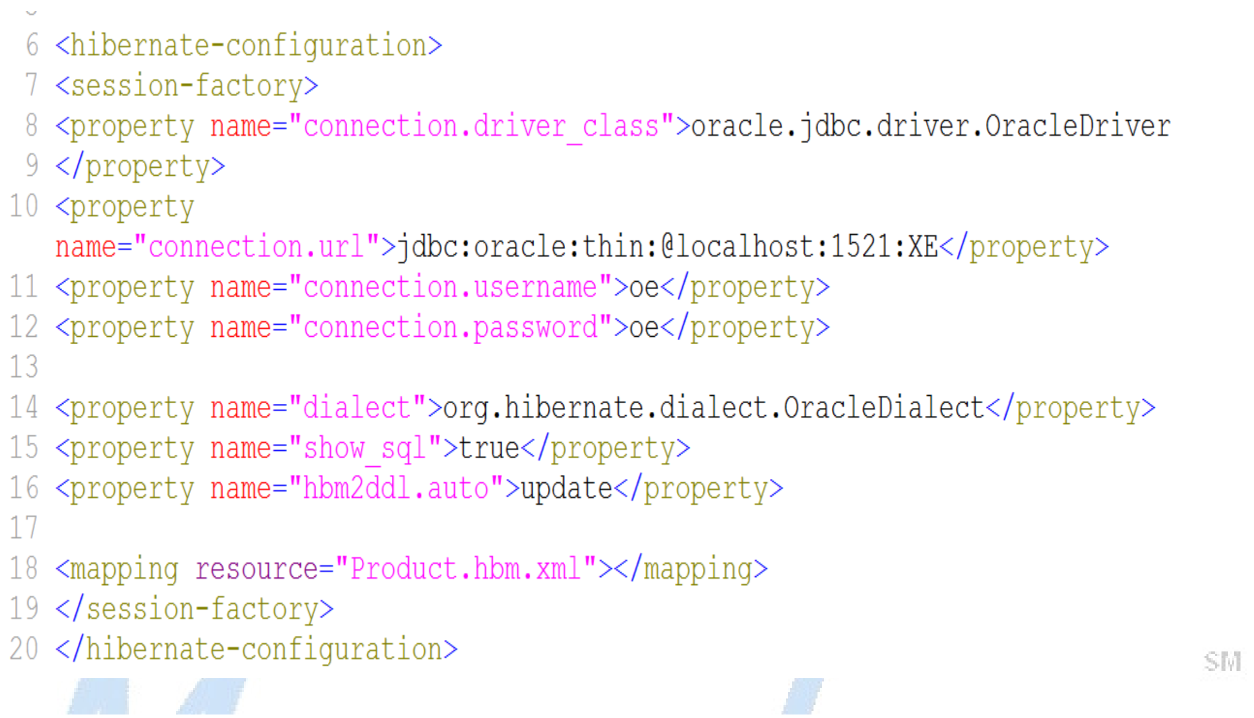
Hibernate Query Language, Passing Runtime Values

Product.java



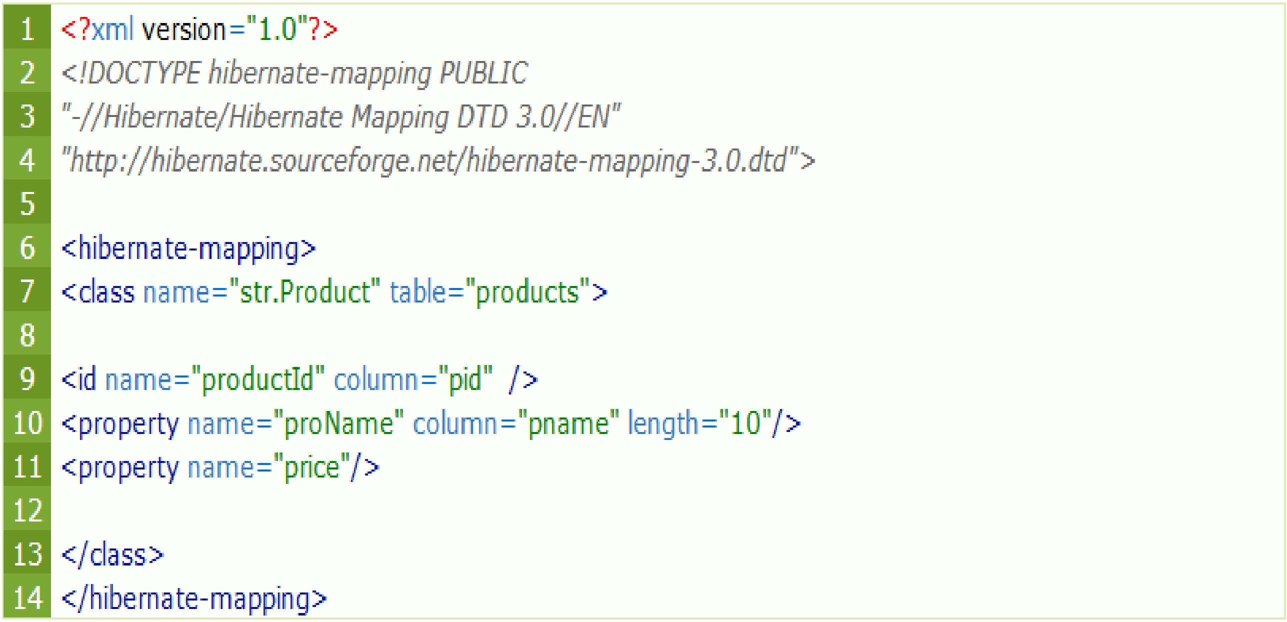
```
package str;

public class Product implements java.io.Serializable{

 private static final long serialVersionUID = 1L;

 private int productId;
 private String proName;
 private double price;

 public void setProductId(int productId)
 {
     this.productId = productId;
 }
 public int getProductId()
 {
     return productId;
 }

 public void setProName(String proName)
 {
     this.proName = proName;
 }
 public String getProName()
 {
     return proName;
 }

 public void setPrice(double price)
 {
     this.price = price;
 }
 public double getPrice()
 {
     return price;
 }
}
```

hibernate.cfg.xml



```
<hibernate-configuration>
<session-factory>
<property name="connection.driver_class">oracle.jdbc.driver.OracleDriver
</property>
<property
name="connection.url">jdbc:oracle:thin:@localhost:1521:XE</property>
<property name="connection.username">oe</property>
<property name="connection.password">oe</property>

<property name="dialect">org.hibernate.dialect.OracleDialect</property>
<property name="show_sql">true</property>
<property name="hbm2ddl.auto">update</property>

<mapping resource="Product.hbm.xml"></mapping>
</session-factory>
</hibernate-configuration>
```

Product.hbm.xml



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<?xml version="1.0"?>
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<hibernate-mapping>
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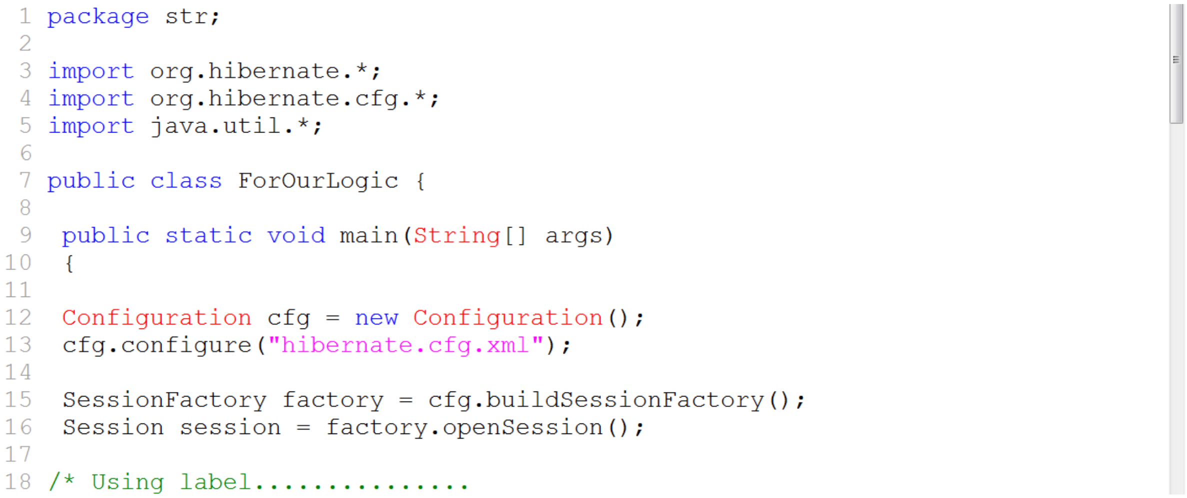
<id name="productId" column="pid"  />
<property name="proName" column="pname" length="10"/>
<property name="price"/>

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



```
package str;

import org.hibernate.*;
import org.hibernate.cfg.*;
import java.util.*;

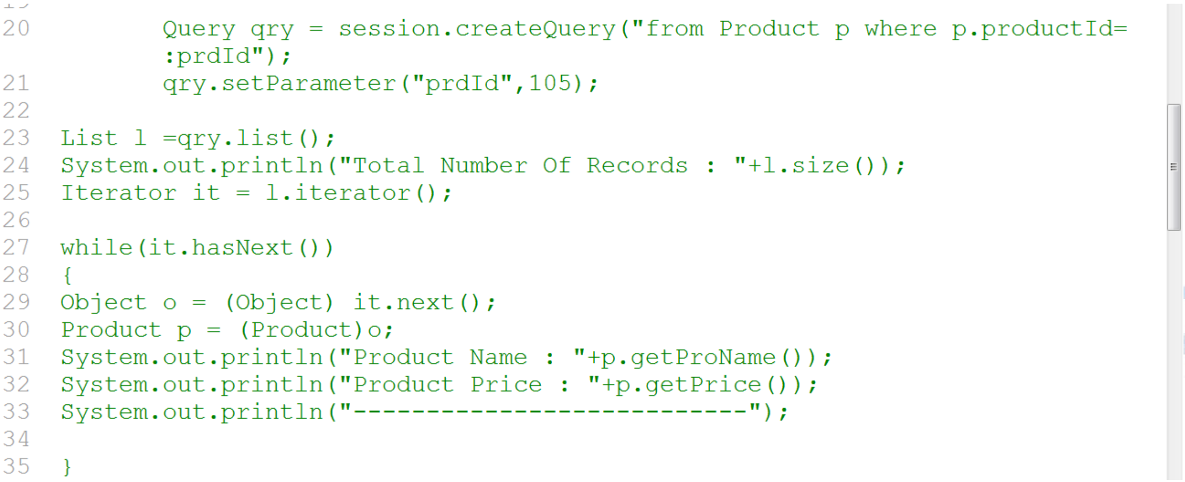
public class ForOurLogic {

 public static void main(String[] args)
 {

 Configuration cfg = new Configuration();
 cfg.configure("hibernate.cfg.xml");

 SessionFactory factory = cfg.buildSessionFactory();
 Session session = factory.openSession();

/* Using label...............
```

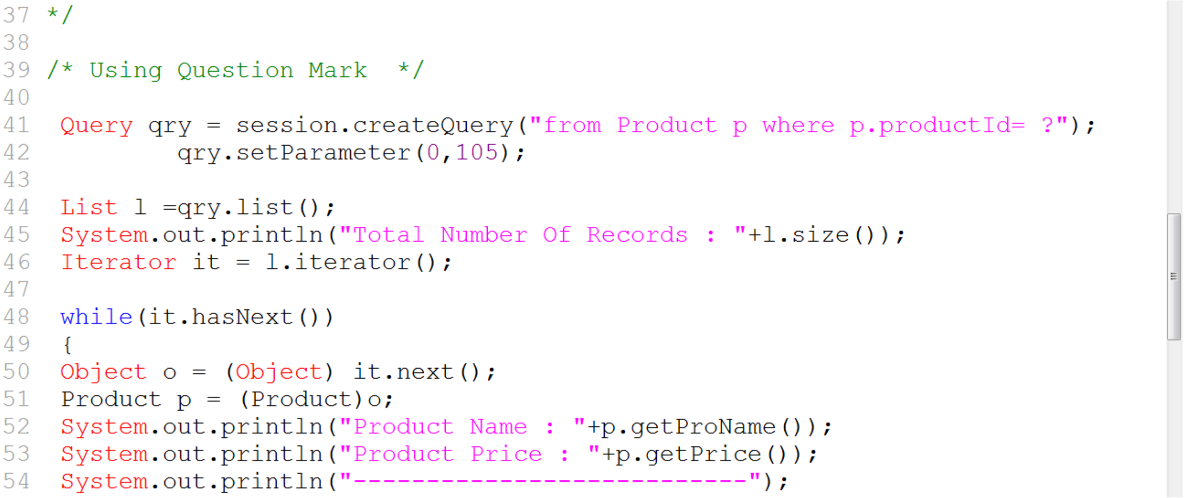


```
        Query qry = session.createQuery("from Product p where p.productId=
        :prdId");
        qry.setParameter("prdId",105);

 List l =qry.list();
 System.out.println("Total Number Of Records : "+l.size());
 Iterator it = l.iterator();

 while(it.hasNext())
 {
 Object o = (Object) it.next();
 Product p = (Product)o;
 System.out.println("Product Name : "+p.getProName());
 System.out.println("Product Price : "+p.getPrice());
 System.out.println("---------------------------");

 }
```



```
*/

/* Using Question Mark  */

 Query qry = session.createQuery("from Product p where p.productId= ?");
         qry.setParameter(0,105);

 List l =qry.list();
 System.out.println("Total Number Of Records : "+l.size());
 Iterator it = l.iterator();

 while(it.hasNext())
 {
 Object o = (Object) it.next();
 Product p = (Product)o;
 System.out.println("Product Name : "+p.getProName());
 System.out.println("Product Price : "+p.getPrice());
 System.out.println("---------------------------");
```

```

  }

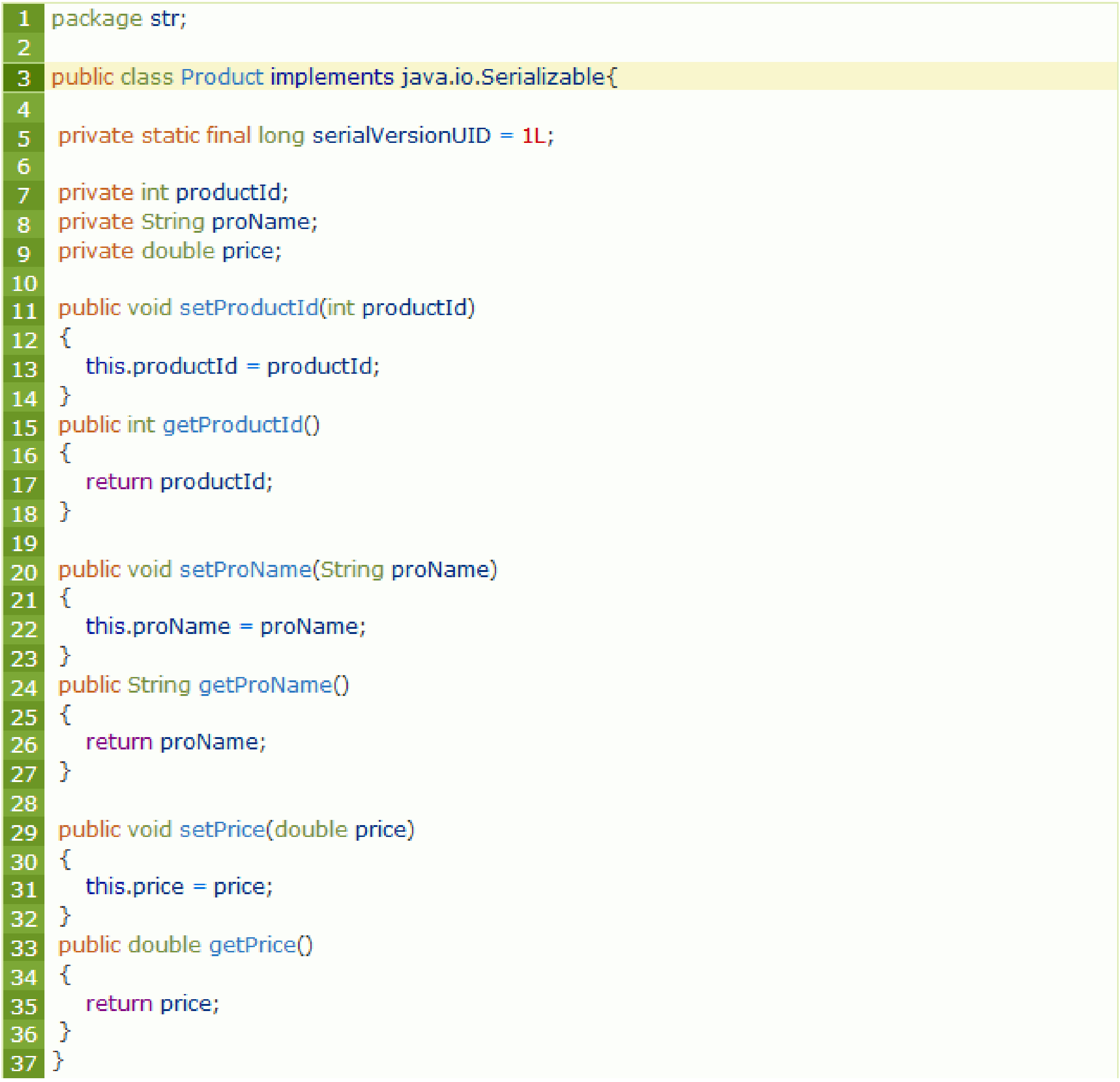
  session.close();
  factory.close();
  }

}



```

Hibernate Query Language, HQL Update,Delete Queries



Product.java

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 }
 public int getProductId()
 {
     return productId;
 }

 public void setProName(String proName)
 {
     this.proName = proName;
 }
 public String getProName()
 {
     return proName;
 }

 public void setPrice(double price)
 {
     this.price = price;
 }
 public double getPrice()
 {
     return price;
 }
}
```
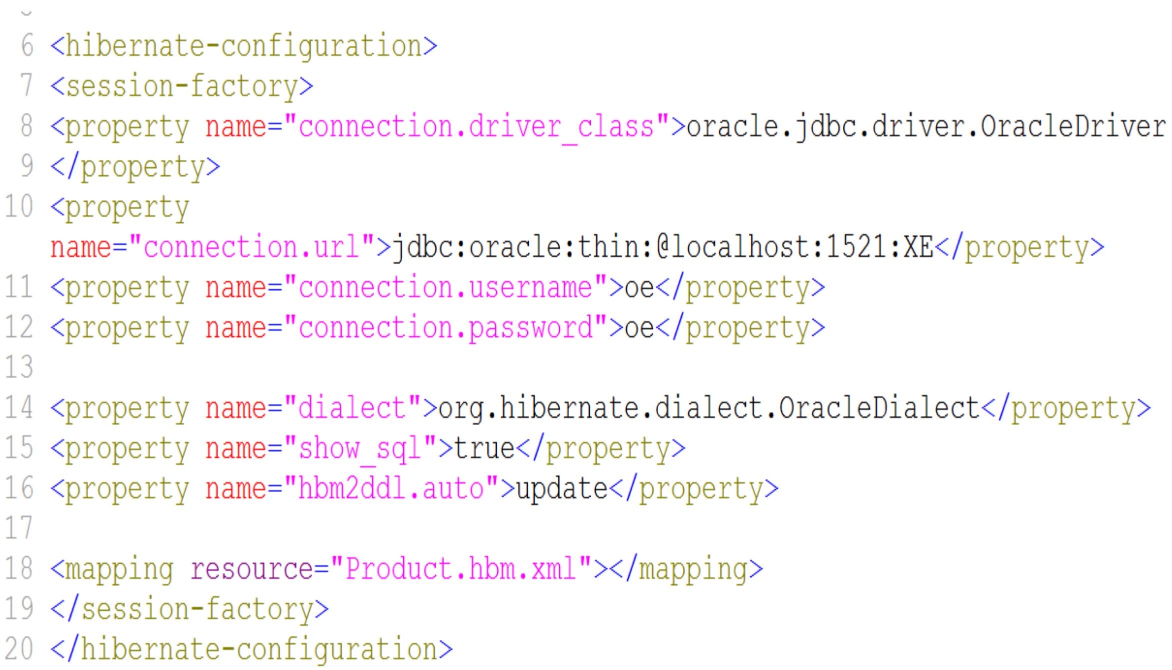

hibernate.cfg.xml



```xml
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<session-factory>
<property name="connection.driver_class">oracle.jdbc.driver.OracleDriver
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<property name="connection.password">oe</property>

<property name="dialect">org.hibernate.dialect.OracleDialect</property>
<property name="show_sql">true</property>
<property name="hbm2ddl.auto">update</property>

<mapping resource="Product.hbm.xml"></mapping>
</session-factory>
</hibernate-configuration>
```
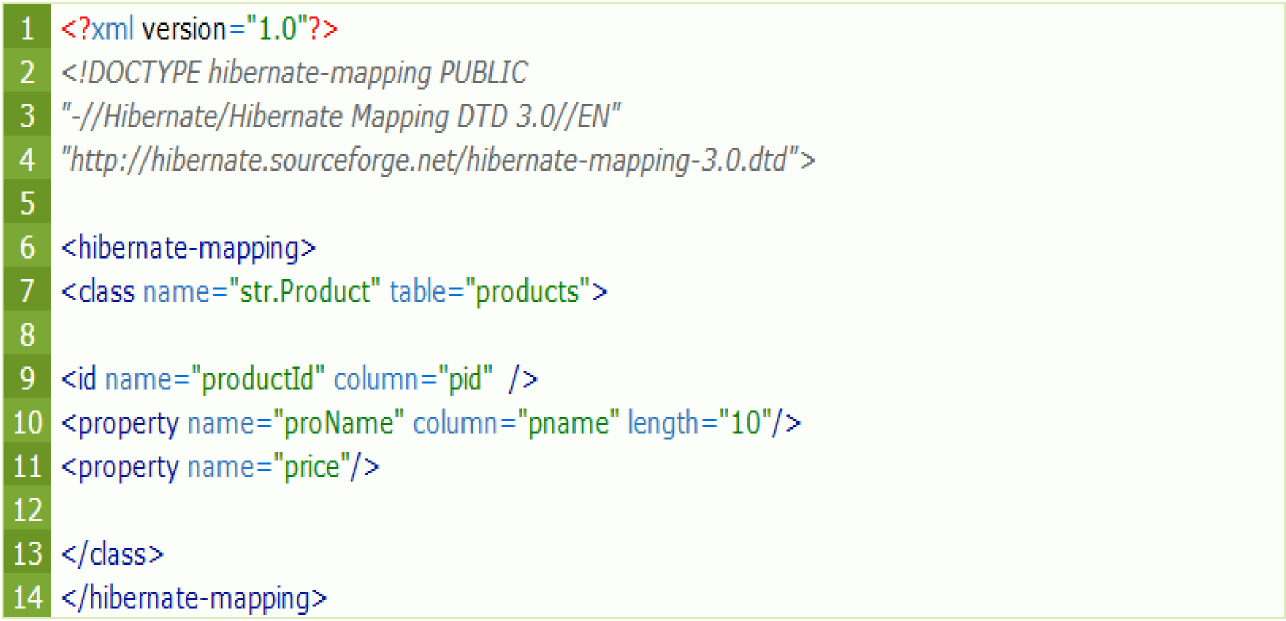

Product.hbm.xml



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</class>
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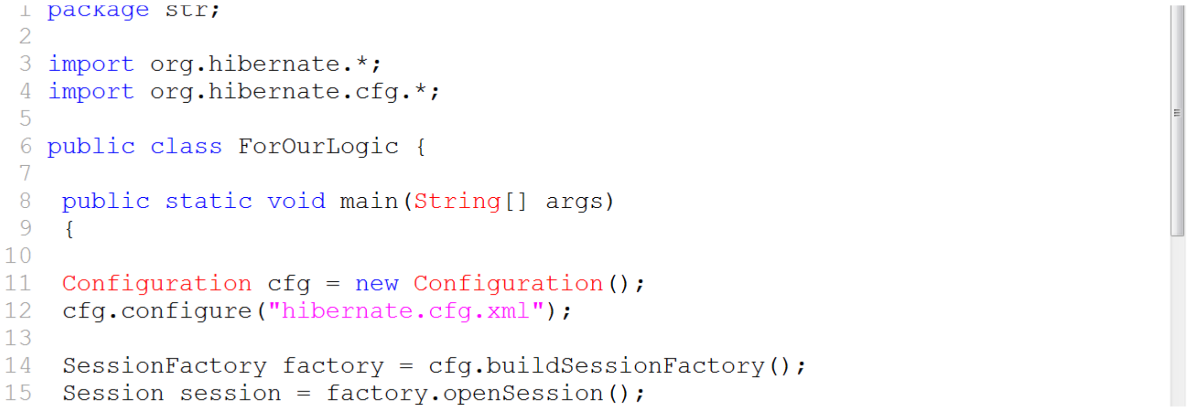
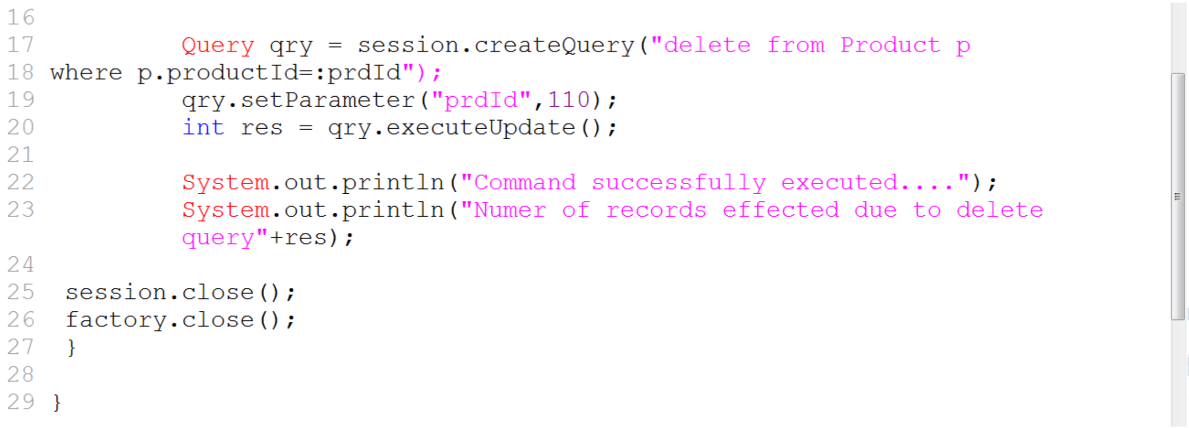


```
package str;

import org.hibernate.*;
import org.hibernate.cfg.*;

public class ForOurLogic {

 public static void main(String[] args)
 {

 Configuration cfg = new Configuration();
 cfg.configure("hibernate.cfg.xml");

 SessionFactory factory = cfg.buildSessionFactory();
 Session session = factory.openSession();
```



```

         Query qry = session.createQuery("delete from Product p
where p.productId=:prdId");
         qry.setParameter("prdId",110);
         int res = qry.executeUpdate();

         System.out.println("Command successfully executed....");
         System.out.println("Numer of records effected due to delete
         query"+res);

 session.close();
 factory.close();
 }

}
```