## Phase – 2 Practice Project: Assisted Practice

## 24. Demonstrate Hibernate logging by Log4j.

• Code

## ✓ hibernate.cfg.xml

```
<?xml version='1.0' encoding='utf-8'?>
<!DOCTYPE hibernate-configuration PUBLIC</pre>
"-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
 <session-factory>
   <!-- Database connection settings -->
   property
name="connection.driver class">com.mysql.cj.jdbc.Driver/property>
    property
name="connection.url">jdbc:mysql://localhost:3306/ecommerce1/property>
    cproperty name="connection.username">root/property>
    cproperty name="connection.password">Arun121212
    <mapping resource="com/ecommerce/EProduct.hbm.xml"/>
  </session-factory>
</hibernate-configuration>
✓ log4j.properties
log4j.rootLogger=DEBUG, Appender1, Appender2
log4j.appender.Appender1=org.apache.log4j.ConsoleAppender
log4j.appender1.layout=org.apache.log4j.PatternLayout
log4j.appender1.layout.ConversionPattern=%-7p %d [%t] %c %x -
%m%n
log4j.appender.Appender2=org.apache.log4j.FileAppender
log4j.appender.Appender2.File=D:\applog.txt
log4j.appender2.layout=org.apache.log4j.PatternLayout
log4j.appender.Appender2.layout.ConversionPattern=%-7p %d [%t] %c %x -
%m%n
# Log everything. Good for troubleshooting
log4j.logger.org.hibernate=INFO
# Log all JDBC parameters
log4j.logger.org.hibernate.type=ALL
```

```
✓ index.html
```

```
<title>Hibernate Configuration Example</title>
<h3>Hibernate Configuration Example</h3>
<a href="init">Initialize Hibernate</a><br>

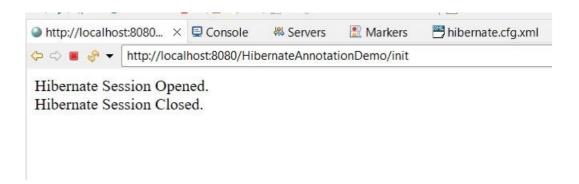
✓ HibernateUtil.java

package com.simpli;
import org.hibernate.SessionFactory;
import org.hibernate.boot.*;
import org.hibernate.boot.registry.*;
public class HibernateUtil {
     private static final SessionFactory;
     static {
               StandardServiceRegistry standardRegistry = new
StandardServiceRegistryBuilder()
                         .configure("hibernate.cfg.xml").build();
               Metadata metaData = new
MetadataSources(standardRegistry).getMetadataBuilder().build();
               sessionFactory =
metaData.getSessionFactoryBuilder().build();
          } catch (Throwable th) {
               throw new ExceptionInInitializerError(th);
     }
     public static SessionFactory getSessionFactory() {
          return sessionFactory;
     }
}
✓ InitDemo.java
package com.simpli;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import org.hibernate.Session;
import org.hibernate.SessionFactory;
/**
* Servlet implementation class InitDemo
@WebServlet("/init")
public class InitDemo extends HttpServlet {
     private static final long serialVersionUID = 1L;
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
          PrintWriter out = response.getWriter();
          out.println("<html><body>");
          // step 1 : get a session (connection) from the session
factory class
          SessionFactory factory = HibernateUtil.getSessionFactory();
          Session session = factory.openSession();
          out.println("Hibernate Session Opened.<br>");
          session.close();
          out.println("Hibernate Session Closed.<br>");
          // STEP 2 execute the HQL commands
          // for now we will only test if the connection is established
with MySQL server.
          out.println("</html></body>");
     }
}
```

## • Output





• This will generate applog.txt file in the specified path, which contains log files.

