```
Exercise 1: Logging Error Messages and Warning Levels
package com.example;
import java.util.logging.Level;
import java.util.logging.Logger;
public class LoginService {
  private static final Logger logger = Logger.getLogger(LoginService.class.getName());
  public boolean login(String username, String password) {
    logger.info("Attempting login for user: " + username);
    if (username == null || password == null) {
     logger.warning("Username or password is null");
     return false;
   }
package com.example;
public class LoginTest {
  public static void main(String[] args) {
    LoginService service = new LoginService();
    service.login("admin", "1234");
    service.login("admin", "wrong");
   service.login(null, "1234");
 }
}
```

OUTPUT:

```
Seclipse-workspace - LoggingDemo/src/com/example/LoginTestjava - Eclipse IDE

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FactoryPatternDemo
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4*    public static void main(String[] args) {
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service.login("admin", "wrong");
service.login(null, "1234");
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is labs6-12

is LoggingDemo

is JRE System Library [JavaSE-1.6]

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             > ② Loginfestjava

> ﷺ mockdemo

> ॐ src/main/java

> ॐ src/main/resources

> ૐ src/test/java

→ ∰ com.example

↓ UserServiceTest.java
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Jun 30, 2025 12:29:43 PM com.example.LoginService login
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       >  src/test/resources
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Jun 30, 2025 12:29:43 PM com.example.LoginService login
SEVERE: Login failed for user: admin
         > 🗁 src
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```