**Superset ID:**  6125132  
**Name:** Podugu Vinay Kumar

**Week : 2**

**Exercise 1 :- SLF4J logging framework**

**AppendixLogging:**

package com.example.logging;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class AppenderLoggingExample {

private static final Logger logger = LoggerFactory.getLogger(AppenderLoggingExample.class);

public static void main(String[] args) {

logger.info("This log goes to both console and file.");

logger.debug("Debugging application for issue tracking.");

logger.error("Simulated error occurred!");

}

}

**Logging Example:**

package com.example.logging;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class LoggingExample {

private static final Logger logger = LoggerFactory.getLogger(LoggingExample.class);

public static void main(String[] args) {

logger.error("This is an error message");

logger.warn("This is a warning message");

}

}

**ParamatrizedLogging:**

package com.example.logging;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class ParameterizedLoggingExample {

private static final Logger logger = LoggerFactory.getLogger(ParameterizedLoggingExample.class);

public static void main(String[] args) {

String username = "john\_doe";

int userId = 101;

logger.info("User with ID {} and name {} has logged in.", userId, username);

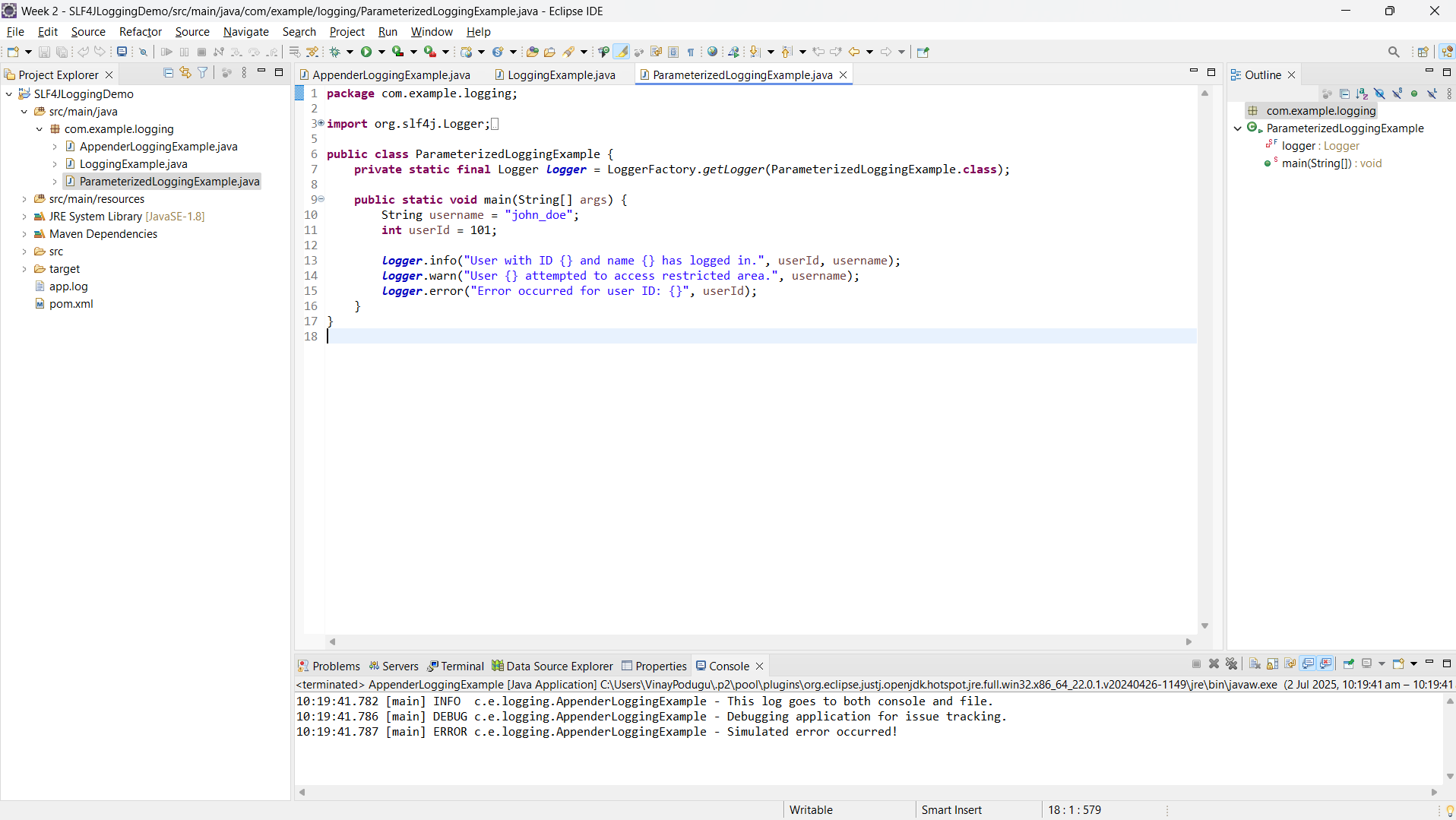
logger.warn("User {} attempted to access restricted area.", username);

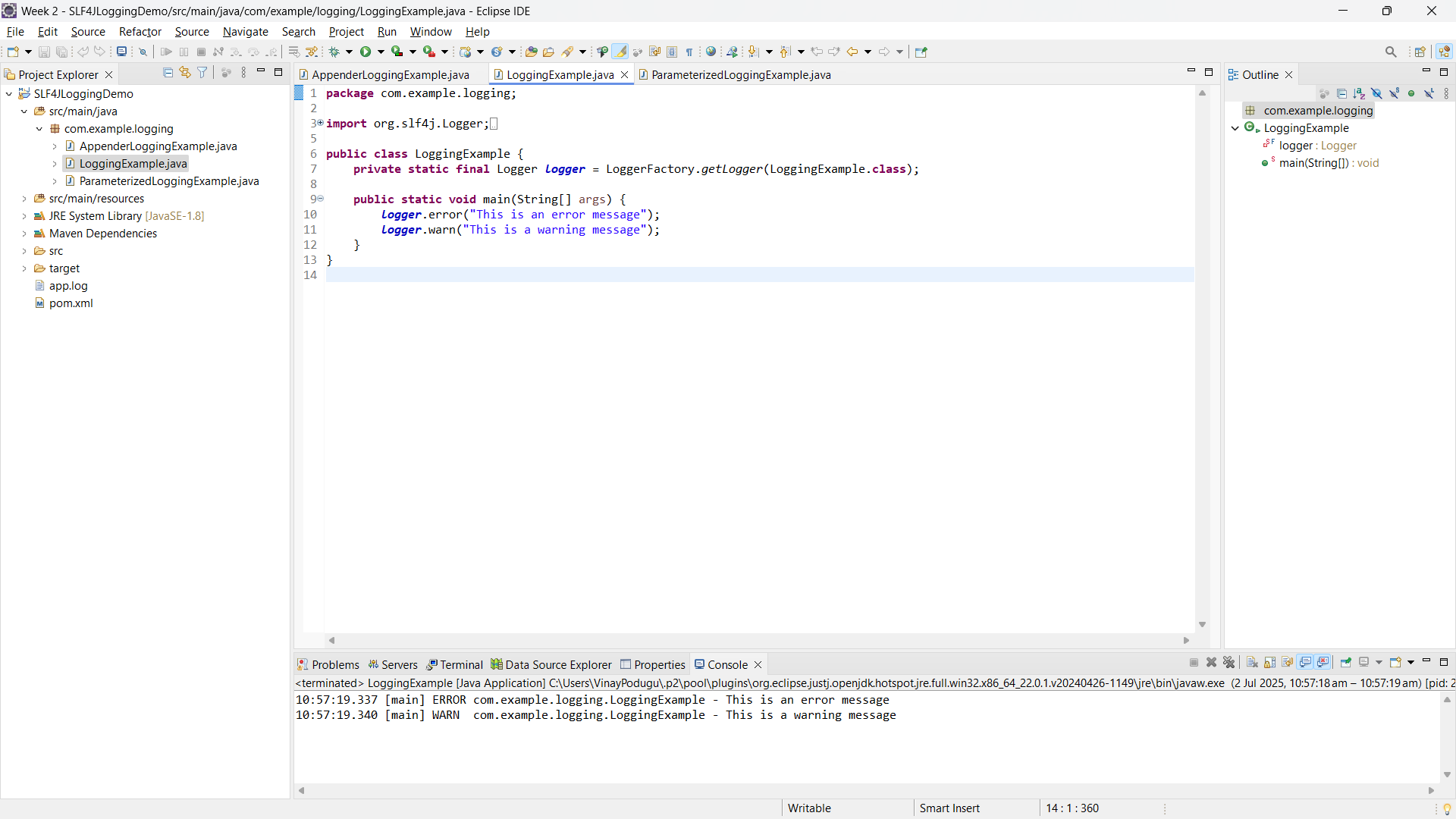
logger.error("Error occurred for user ID: {}", userId);

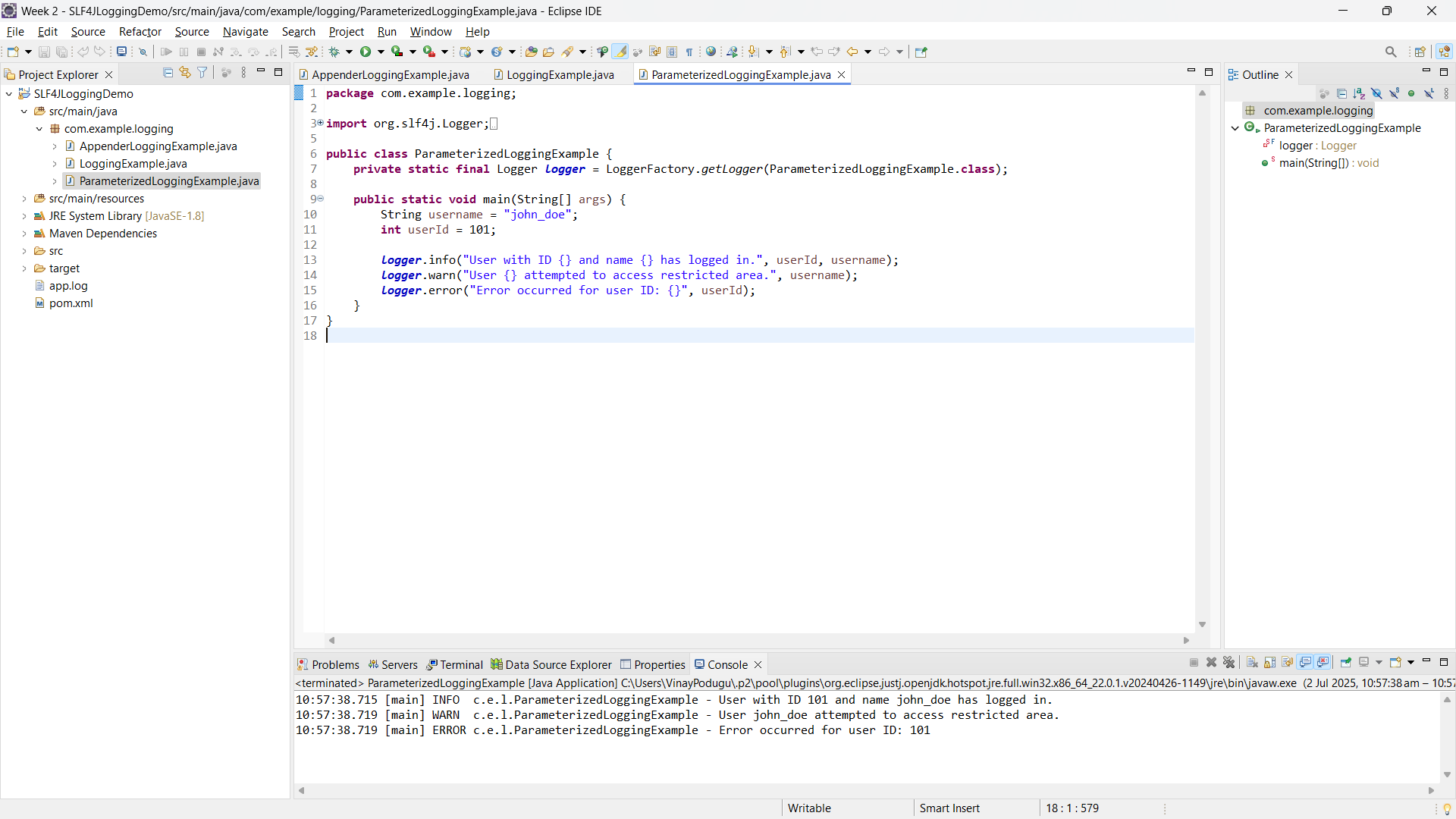
}

}

**OUTPUT:**

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