**Logger.java:**

package singletonpattern;

public class Logger {

private static Logger *singleInstance*;

private Logger() {

System.*out*.println("Logger instance created.");

}

public static Logger getInstance() {

if (*singleInstance* == null) {

*singleInstance* = new Logger();

}

return *singleInstance*;

}

public void log(String message) {

System.*out*.println("LOG: " + message);

}

}

**TestSingleTon.java:**

package singletonpattern;

public class TestSingleTon {

public static void main(String[] args) {

Logger logger1 = Logger.*getInstance*();

Logger logger2 = Logger.*getInstance*();

logger1.log("This is the first log message.");

logger2.log("This is the second log message.");

if (logger1 == logger2) {

System.*out*.println("Both logger instances are the same. Singleton is working correctly.");

} else {

System.*out*.println("Logger instances are different. Singleton failed.");

}

}

}

Output:

