# SingletonPatternExample

**NOTE: Executed all programs in online java compiler**

#code

class Logger {

private static Logger instance;

// Private constructor

private Logger() {

System.out.println("Logger Initialized.");

}

// Static method to return the single instance

public static Logger getInstance() {

if (instance == null) {

instance = new Logger();

}

return instance;

}

public void log(String message) {

System.out.println("Log: " + message);

}

}

public class Main {

public static void main(String[] args) {

Logger logger1 = Logger.getInstance();

Logger logger2 = Logger.getInstance();

logger1.log("First message");

logger2.log("Second message");

if (logger1 == logger2) {

System.out.println("Only one instance of Logger exists.");

} else {

System.out.println("Different Logger instances found! Singleton failed.");

}

}

}

output

