public class Main {  
 public static void main(String[] args) {  
 Logger logger1 = Logger.*getInstance*();  
 logger1.log("First log message.");  
  
 Logger logger2 = Logger.*getInstance*();  
 logger2.log("Second log message.");  
 if (logger1 == logger2) {  
 System.*out*.println("Only one Logger instance exists.");  
 } else {  
 System.*out*.println("Multiple Logger instances exist.");  
 }  
 }  
}

public class Logger {  
 private static Logger *instance*;  
 private Logger() {  
 System.*out*.println("Logger initialized.");  
 }  
 public static Logger getInstance() {  
 if (*instance* == null) {  
 *instance* = new Logger(); }  
 return *instance*;  
 }  
 public void log(String message) {  
 System.*out*.println("[LOG] " + message);  
 }  
}

OUTPUT:

