# SINGLETON IMPLEMENTATION LOGGER

CODE :

class Logger {

private static final Logger instance = new Logger();

private Logger() {

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

}

public static Logger getInstance() {

return instance;

}

public void log(String message) {

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

}

}

//testing classes

public class Main {

public static void main(String[] args) {

// Get logger instances

Logger logger1 = Logger.getInstance();

Logger logger2 = Logger.getInstance();

// Use the logger

logger1.log("System booting up...");

logger2.log("Database connection established.");

// Check if both are the same

if (logger1 == logger2) {

System.out.println("Only one Logger instance is used.");

} else {

System.out.println("Multiple Logger instances found! This should not happen.");

}

}

}

OUTPUT :

