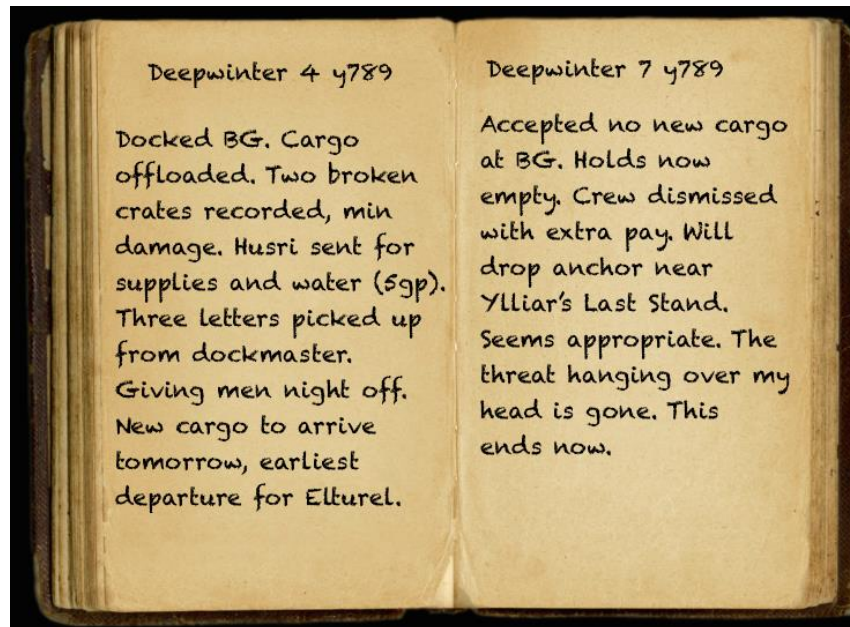# Introduction to Logging in Java
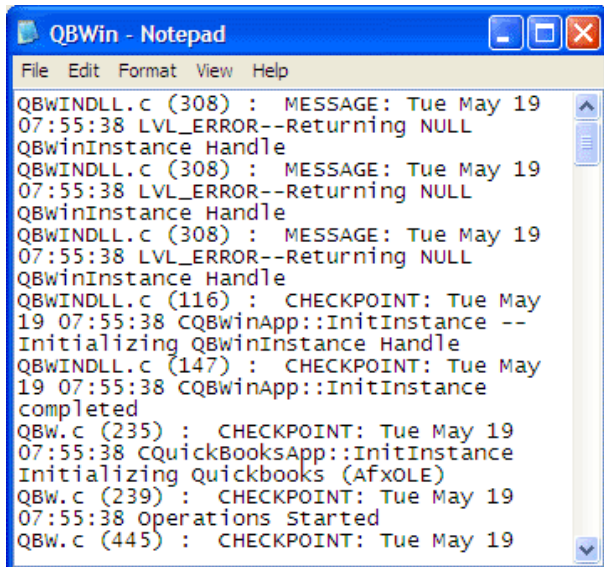
Introduction to Logging in Java

Introduction

- Java logging is a framework of java platform for data or activity recording in a central place or output screen or in simple terms we can say that: **'Logging is recording of every activity'**

- **You might have heard about 'Captain's Log' in ships in which the captain of the ship writes down what happened on each day. The Java Logging is also a similar activity.**

Introduction (Contd.).

- When we install any application, we get readme file with information about the installation status.

- Incase of any issues the problems are recorded in log file or in readme files

- Logging helps in analysis of runtime statistics like generic information, warnings, errors and debug messages

Sample Log file

Introduction (Contd.).

- Logging in java can be done using frameworks like
    - Java Logging API
    - Apache Commons Logging
    - Log4j
    - Etc…

Java Logging API

- Java Logging API
  - java.util.logging package is an inbuilt API

Commons logging

- Apache's commons Logging aids very effectively when creating library application
- These applications may have to work in connect with other applications using different kinds of logging mechanisms
- Between various implementations of Logging, Commons Logging acts as a very thin bridge
- It is an abstraction for concrete implementations
- So the application is responsible for the initialization and termination of the logging system
- Other alternatives to commons logging are:
    - SLF4J(Simple Logging Facade for Java)
    - Log Bridge
    - Avalon LogKit
    - JULI module in Apache Tomcat

Summary

- Introduction to logging
- Logging API
- Commons Logging

Thank You