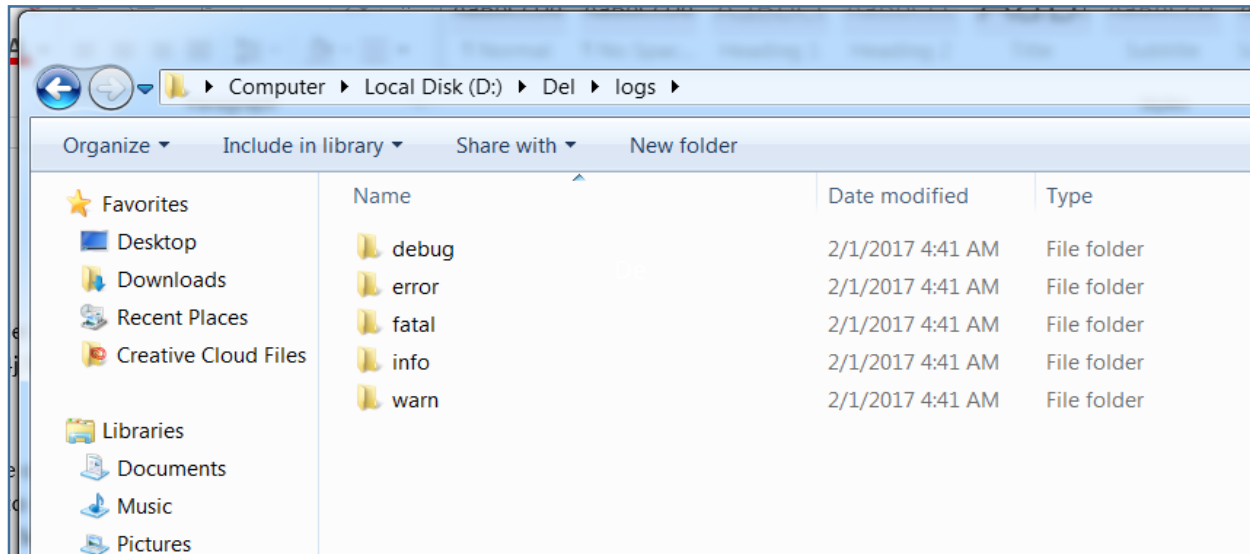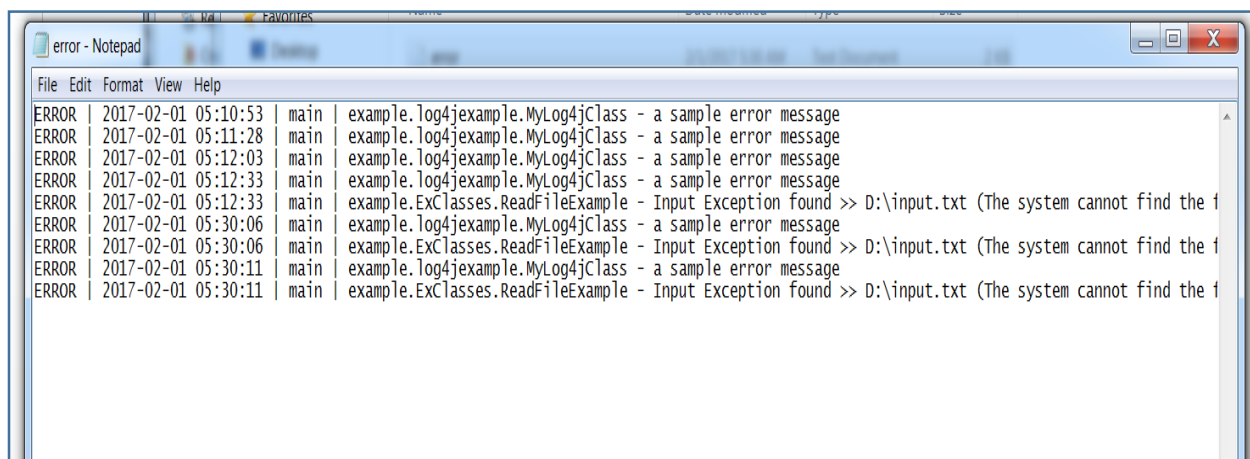The Sample Project is all about filtering different log levels in to different log files. It's easy to implement using Log4j framework in java using LevelMatchFilter class and DenyAllFilter class.

Project: First I have configured log4j.xml file for different appenders. For this I used a Filter called **LevelMatchFilter and DenyAllFilter** inside the appender. This configuration file will create different locations to store Error Messages, Info Messages, Fatal Messages, Warning Messages and Debug Messages. See the below image.

I have attached the maven project file. Run the project and see.

See below Error Log file.

Like this all directories have their own log files.

See log4j.xml configuration file.

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log4j_filter_example/pom.xml   log4j.xml   MyLog4jClass.java   TestClass.java   ReadFileExample.java

```xml
 1  <?xml version="1.0" encoding="UTF-8" ?>
 2  <!DOCTYPE log4j:configuration SYSTEM "log4j.dtd">
 3  <log4j:configuration xmlns:log4j="http://jakarta.apache.org/log4j/"
 4      debug="true">
 5
 6      <appender name="console" class="org.apache.log4j.ConsoleAppender">
 7          <param name="Target" value="System.out" />
 8          <layout class="org.apache.log4j.PatternLayout">
 9              <param name="ConversionPattern" value="%-5p | %d{yyyy-MM-dd HH:mm:ss} | %t | %c{3} - %m%n" />
10          </layout>
11      </appender>
12
13      <!-- appender for info messages file -->
14      <appender name="info-log" class="org.apache.log4j.RollingFileAppender">
15          <param name="Append" value="true" />
16          <param name="File" value="D:/Del/logs/info/info.log" />
17          <param name="maxFileSize" value="10KB" />
18          <param name="maxBackupIndex" value="5" />
19          <layout class="org.apache.log4j.PatternLayout">
20              <param name="ConversionPattern" value="%-5p | %d{yyyy-MM-dd HH:mm:ss} | %t | %c{3} - %m%n" />
21          </layout>
22          <filter class="org.apache.log4j.varia.LevelMatchFilter">
23              <param name="LevelToMatch" value="INFO" />
24              <param name="AcceptOnMatch" value="true" />
25          </filter>
26          <filter class="org.apache.log4j.varia.DenyAllFilter"/>
27      </appender>
28
29      <!-- appender for error messages file -->
30      <appender name="error-log" class="org.apache.log4j.RollingFileAppender">
31          <param name="Append" value="true" />
32          <param name="maxFileSize" value="10KB" />
33          <param name="maxBackupIndex" value="5" />
34          <param name="File" value="D:/Del/logs/error/error.log" />
35          <layout class="org.apache.log4j.PatternLayout">
36              <param name="ConversionPattern" value="%-5p | %d{yyyy-MM-dd HH:mm:ss} | %t | %c{3} - %m%n" />
37          </layout>
38          <filter class="org.apache.log4j.varia.LevelMatchFilter">
39              <param name="LevelToMatch" value="ERROR" />
40              <param name="AcceptOnMatch" value="true" />
41          </filter>
```