# log4j:

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# TestClass:

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```
package com.test.practice;
import org.apache.log4j.Logger;

public class TestClass {

   /* log4j -   Logging for JAVA
    *          We use in both server side and standalone applications
    *          Displaying messages on console
    *
    * Requirements:
    *        1. log4j.jar
    *        2. log4j.properties
    *
    * Log levels:
    *        1. debug
    *        2. info
    *        3. warn
    *        4. error
    *        5. fatal
    */

   static Logger log = Logger.getLogger(TestClass.class);
   // creating for logger object, we must pass class name

   public static void main(String[] args) {

      log.debug("This is debug message");
      log.info("This is info message");
      log.warn("This is warn message");
      log.error("This is error message");
      log.fatal("This is fatal message");

      System.out.println("Welcome to log4J.....");
   }
}
```

**log4J.properties: place out src folder.**

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```
# if you declare logger level:  INFO, then it will display all log levels from INFO
# we can give "console" or "any name"

log4j.rootLogger=DEBUG, CONSOLE

# For every scenario, we need to add one appender and one layout

log4j.appender.CONSOLE=org.apache.log4j.ConsoleAppender
log4j.appender.CONSOLE.layout=org.apache.log4j.PatternLayout

# display in time stamp format HH:MM:SS t

log4j.appender.CONSOLE.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %t %-5p %c{1}:%L - %m%n

# %t = thread
# %-5p = which logger level it will display
# %c{1} = class name
# %L = line number
# %m = display message
# %n = new line
```

**OUTPUT:**

**----------**

```
2015-12-17 15:31:54 main INFO  TestClass:29 - This is info message
 2015-12-17 15:31:54 main WARN  TestClass:30 - This is warn message
 2015-12-17 15:31:54 main ERROR TestClass:31 - This is error message
 2015-12-17 15:31:54 main FATAL TestClass:32 - This is fatal message
 Welcome to log4J.....
```