

Log4j Properties

The **log4j.properties** file is a log4j configuration file which stores properties in key-value pairs. The log4j properties file contains the entire runtime configuration used by log4j. This file will contain log4j appenders information, log level information and output file names for file appenders.

By default, the LogManager searches for a file named log4j.properties in the CLASSPATH.

log4j.properties Syntax:

- The root logger's level is defined as DEBUG. The DEBUG will attach the appender named X to it.
- Put the appender named X to be a valid appender.
- Put the layout for the appender X.

Let's see the syntax of log4j.properties file for an appender X:

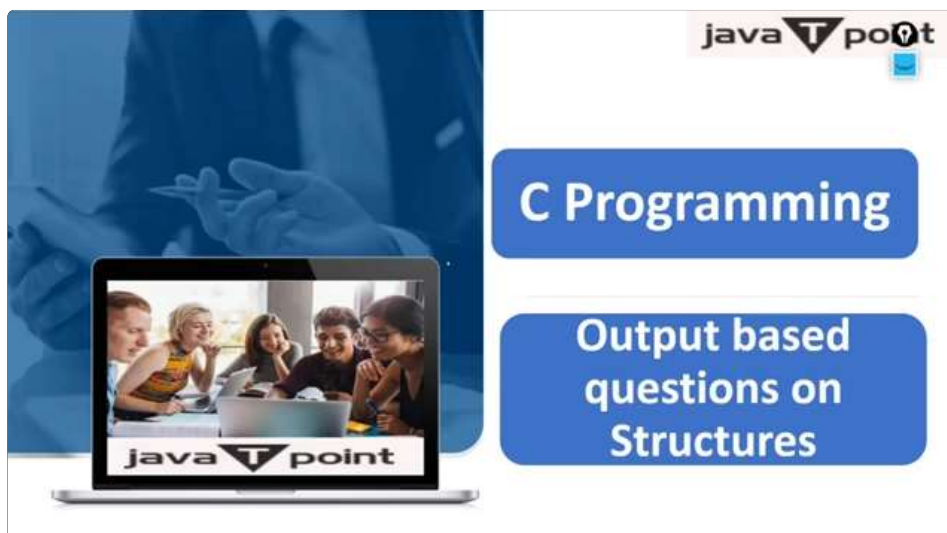
```
# Define the root logger with appender X
log4j.rootLogger = DEBUG, X

# Put the appender named X to be a File appender
log4j.appender.X=org.apache.log4j.FileAppender

# Define the layout for X appender
log4j.appender.X.layout=org.apache.log4j.PatternLayout
log4j.appender.X.layout.conversionPattern=%m%n
```

log4j.properties Example:

With the help of the above syntax, we define the following in log4j.properties file:



↑ SCROLL TO TOP The root logger's level is defined as DEBUG, The DEBUG appender named FILE to it.

- The appender FILE is defined as **org.apache.log4j.FileAppender**. It writes to a file with the name log.out located in the log directory.
- The layout pattern specified is %m%n, which means the printed logging message will be followed by a newline character.

```
# Define the root logger with appender file
log4j.rootLogger = DEBUG, FILE

# Define the file appender
log4j.appender.FILE=org.apache.log4j.FileAppender
log4j.appender.FILE.File=${log}/log.out

# Define the layout for file appender
log4j.appender.FILE.layout=org.apache.log4j.PatternLayout
log4j.appender.FILE.layout.conversionPattern=%m%n
```

It is important to note that log4j supports UNIX-style variable substitution, such as \${variableName}.

log4j.properties - Other Examples:

- **Output to Console**

In this example, all logging will be redirected to your console:

```
# Root logger option
log4j.rootLogger=INFO, stdout

# Direct log messages to stdout
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.Target=System.out
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %-5p %c{1}:%L - %m%n
```

- **Output to a File**

In this example, all Logging information will be redirected to your specified log file:

```
# Root logger option
log4j.rootLogger=INFO, file

# Direct log messages to a log file
log4j.appender.file=org.apache.log4j.RollingFileAppender
```

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```
#Redirect to Tomcat logs folder
#log4j.appender.file.File=${catalina.home}/logs/logging.log

log4j.appender.file.File=C:\\logigng.log
log4j.appender.file.MaxFileSize=10MB
log4j.appender.file.MaxBackupIndex=10
log4j.appender.file.layout=org.apache.log4j.PatternLayout
log4j.appender.file.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %-5p %c{1}:%L - %m%n
```

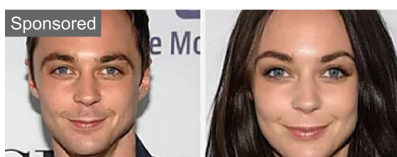
◦ **Output to Console and File**

In this example, all logging will be redirected to both console and log file:

```
# Root logger option
log4j.rootLogger=INFO, file, stdout

# Direct log messages to a log file
log4j.appender.file=org.apache.log4j.RollingFileAppender
log4j.appender.file.File=C:\\logging.log
log4j.appender.file.MaxFileSize=10MB
log4j.appender.file.MaxBackupIndex=10
log4j.appender.file.layout=org.apache.log4j.PatternLayout
log4j.appender.file.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %-5p %c{1}:%L - %m%n

# Direct log messages to stdout
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.Target=System.out
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %-5p %c{1}:%L - %m%n
```

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