

Level	Description
ALL	All levels including custom levels.
DEBUG	Designates fine-grained informational events that are most useful to debug an application.
ERROR	Designates error events that might still allow the application to continue running.
FATAL	Designates very severe error events that will presumably lead the application to abort.
INFO	Designates informational messages that highlight the progress of the application at coarse-grained level.
OFF	The highest possible rank and is intended to turn off logging.
TRACE	Designates finer-grained informational events than the DEBUG.
WARN	Designates potentially harmful situations.

```

Logger log = Logger.getLogger(LogClass.class);
    public static void main(String[] args) {
        log.trace("Trace Message!");
        log.debug("Debug Message!");
        log.info("Info Message!");
        log.warn("Warn Message!");
        log.error("Error Message!");
        log.fatal("Fatal Message!");
    }

```

```

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

```

```

#Define the file appender
log4j.appender.file=org.apache.log4j.RollingFileAppender
log4j.appender.file.File=D:/logfiles/Spring3.txt
log4j.appender.file.MaxFileSize=5MB
log4j.appender.file.MaxBackupIndex=10

```

```

#Define the layout for file appender
log4j.appender.file.layout=org.apache.log4j.PatternLayout
log4j.appender.file.layout.ConversionPattern=%m%n
log4j.appender.file.Threshold=WARN
#this can be warn,debug,info,error etc

```

appender.FILE types

- FileAppender
- RollingFileAppender
- DailyRollingFileAppender
- JDBCAppender

And many more like below

- | | |
|----------------------|------------------------------|
| • AppenderSkeleton | AsyncAppender |
| • ConsoleAppender | ExternallyRolledFileAppender |
| • JMSAppender | LF5Appender |
| • NTEventLogAppender | NullAppender |
| • SMTPAppender | SocketAppender |
| • SocketHubAppender | SyslogAppender |
| • TelnetAppender | WriterAppender |