**Step 1 : Add dependency**

<dependency>

<groupId>log4j</groupId>

<artifactId>log4j</artifactId>

<version>1.2.17</version>

</dependency>

**Step 2: Make a properties file by the name Log4j.properties**

log4j.rootLogger = DEBUG, FILE

# Define the file appender

log4j.appender.FILE=org.apache.log4j.FileAppender

log4j.appender.FILE.File=/apps/logs/myLogs.log

#D/apps/logs/mycollege.log

# Define the layout for file appender

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

#Log4J configuration

log4j.rootLogger=DEBUG,FILE

log4j.appender.FILE=org.apache.log4j.DailyRollingFileAppender

log4j.appender.FILE.Append = true

log4j.appender.FILE.DatePattern = '.'yyy-MM-dd

log4j.appender.FILE.File=/apps/logs/sbi.log

log4j.appender.FILE.layout=org.apache.log4j.PatternLayout

log4j.appender.FILE.layout.ConversionPattern=[%d] %t %c %L %-5p - %m%n

log4j.logger.org.springframework=WARN

**Step 3 : Make logger object**

**private** **static** **final** Logger ***logger***=Logger.*getLogger*(DepartmentController.**class**);

**Step 4 : Use logger object**

***logger.error("Error Message"); //200***

***logger.warn("Warn Message"); //300***

***logger.info("Info Message"); //400***

***logger.debug("Debug Message"); //500***

Logger – Captures information

Layout

Appender – publish, where u need to publish –default System.out, database, file, network

To write your information about logging into multiple files, you have to use **org.apache.log4j.RollingFileAppender** class which extends the FileAppender class and inherits all its properties.

DatePattern controls the rollover schedule using one of the following patterns:

|  |  |
| --- | --- |
| **DatePattern** | **Description** |
| '.' yyyy-MM | Roll over at the end of each month and at the beginning of the next month. |
| '.' yyyy-MM-dd | Roll over at midnight each day. This is the default value. |
| '.' yyyy-MM-dd-a | Roll over at midday and midnight of each day. |
| '.' yyyy-MM-dd-HH | Roll over at the top of every hour. |
| '.' yyyy-MM-dd-HH-mm | Roll over every minute. |
| '.' yyyy-ww | Roll over on the first day of each week depending upon the locale. |

**DatePattern:** This indicates when to rollover the file and the naming convention to be followed. By default, rollover is performed at midnight per day.