**Batch 3**

**Log4j 2.x Assignments**

Write a simple java application with main() method & log messages using Log4j. Perform below activities:

1. Configure ‘ConsoleAppender’ & set different log levels like FATAL, ERROR, WARN, INFO, DEBUG & TRACE; observe the behavior of logging. Make sure it follows log ranking as ALL < TRACE < DEBUG < INFO < WARN < ERROR < FATAL < OFF
2. Configure FileAppender & confirm that messages are logged into file system.
3. Apply different patterns using pattern layout like %d, %C, %t etc & study their behavior.
4. Apply HTML layout & make sure messages are logged into a HTML table.
5. Apply Json layout & confirm Log4j creates valid json log file.
6. Apply XML layout & confirm Log4j creates valid XML log file.
7. Apply rolling file appender & make sure after reaching max size of the log file, it creates new log file & compresses old log file.