Complete Threads Workshop

Course Content

Pre requisite : Core Java -

- ➤ **What is Thread ?**
- ➤ **How many ways thread object can be created ?**
- ➤ **What is the difference between java program execution vs thread execution**
- ➤ **Thread Life cycle.**
- ➤ **Different thread states**
- ➤ **What is the need for Synchronization ?**
- ➤ **Synchronization in Java**
- ➤ **What is Object Lock ?**
- ➤ **What is Class Lock ?**
- ➤ **Synchronization vs Lock**
- ➤ **What is interthread communication ?**
- ➤ **Difference between Sleep and Wait methods ?**
- ➤ **Why wait, notify and notify all are in Object class ?**
- ➤ **Yield Method, join method**
- ➤ **What is the drawback of Thread ?**
- ➤ **What is the need for Thread pool in Java ?**
- ➤ **What is the need for Callable interface ?**
- ➤ **What are the difference between callable and runnable ?**
- ➤ **What are different thread pools in Java and example program using the thread pool ?**
  - ▪ **Single Thread pool**
  - ▪ **Cached Thread pool**
  - ▪ **Fixed Thread pool**
  - ▪ **Scheduled Thread pool**
- ➤ **How to implement thread pool ?**
- ➤ **Executor framework ?**
- ➤ **How to do multi threading in Java ? Practical program on multi threading using executor framework**
- ➤ **What is Future interface in Java ?**
- ➤ **What is Volatile keyword in Java ?**
- ➤ **What is Deadlock and how to avoid it ?**
- ➤ **What is Atomicity in Java ?**
- ➤ **What is the difference between lock and Synchronization ?**
- ➤ **What is reentrant lock ?**
- ➤ **What is read write lock ?**

- What is count down latch ?
- What is semaphore ?
- What is cyclic barrier ?
- What is thread local ?
- What is Thread Groups
- Java 8 changes to executor framework changes
- Producer and Consumer example (Blocking queue) implementation using Threads
- Interview Q & A

Timing: 7:00 AM to 8:00 AM (Recordings up to 6 months)
Fee: 2000
Duration is: 25 to 30 days (Mon to Fri)