Day 5: Assignment

Write two classes as follows

- → ThreadImpl1 should extend Thread class and override run method
 In run method, run loop from 1 to 10000 and and add each integer with next to it.
 In Test class with main() method, start the above method in a new Thread
- → ThreadImpl2 class should implement Runnable interface
 Again override run() method and add values from 1 to 10000 using loop
 In Test class, start above method in a new thread

Extension of above problem statement (Version 2)

- → Now try to synchronize the methods in above defined two classes (impl by extending Thread and implementing Runnable)
- → Try to run the two threads in parallel and observe the output

→ CAN YOU WRITE A SYNCHRONIZED PROGRAM WITH WAIT AND NOTIFY METHODS?

Interview Question on Threads (Try to implement with code)

- 1. WHAT IS THE NEED FOR THREADS IN JAVA?
- 2. HOW DO YOU CREATE A THREAD?
- 3. HOW DO YOU CREATE A THREAD BY EXTENDING THREAD CLASS?
- 4. HOW DO YOU CREATE A THREAD BY IMPLEMENTING RUNNABLE INTERFACE?
- 5. HOW DO YOU RUN A THREAD IN JAVA?

Day 5: Assignment 1

- 6. WHAT ARE THE DIFFERENT STATES OF A THREAD?
- 7. WHAT IS PRIORITY OF A THREAD? HOW DO YOU CHANGE THE PRIORITY OF A THREAD?
- 8. WHAT IS EXECUTORSERVICE?
- 9. CAN YOU GIVE AN EXAMPLE FOR EXECUTORSERVICE?
- EXPLAIN DIFFERENT WAYS OF CREATING EXECUTOR SERVICES
- 11. HOW DO YOU CHECK WHETHER AN EXECUTIONSERVICE TASK EXECUTED SUCCESSFULLY?
- 12. WHAT IS CALLABLE? HOW DO YOU EXECUTE A CALLABLE FROM EXECUTIONSERVICE?
- 13. WHAT IS SYNCHRONIZATION OF THREADS?
- 14. CAN YOU GIVE AN EXAMPLE OF A SYNCHRONIZED BLOCK?
- 15. CAN A STATIC METHOD BE SYNCHRONIZED?
- 16. WHAT IS THE USE OF JOIN METHOD IN THREADS?
- 17. DESCRIBE A FEW OTHER IMPORTANT METHODS IN THREADS?
- 18. WHAT IS A DEADLOCK?
- 19. WHAT ARE THE IMPORTANT METHODS IN JAVA FOR INTER-THREAD COMMUNICATION?
- 20. WHAT IS THE USE OF WAIT METHOD?
- 21. WHAT IS THE USE OF NOTIFY METHOD?
- 22. WHAT IS THE USE OF NOTIFYALL METHOD?

Day 5: Assignment 2