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Thread class methods (Part 2) in Java

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=> Thread class methods :-

4. Priority Based Methods:

- → getPriority() This method is used to get the priority of the thread
- → setPriority(int priority) This method is used to set the priority of the thread

5. Prevent thread execution method :-

- → sleep(long mili) This method is used to pause the current running thread for the provided time period
- → yield() This method is used to stop the current running thread execution and provide the chance to another thread for execution

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→ join() -

=> What is thread priority :-

- → Thread priority is an integer value of the thread, the thread having high priority or high integer value will get the priority first to execute by JVM.
- → Priority integer value ranges from 1 to 10.
- → Java provides 3 pre-defined priorities :-
 - 1 MIN_PRIORITY
 - 5 NORM_PRIORITY
 - 10 MAX PRIORITY
- → Below are not priorities :-
 - 0, <1, >10 (these priorities will provide an exception saying
 - java.lang.lllegalArgumentException)
 - LOW_PRIORITY, MINIMUM_PRIORITY
 - NORMAL_PRIORITY, MIDIUM_PRIORITY
 - MAXIMUM_PRIORITY, HIGH_PRIORITY

→ NOTE:

- 1. Priorities depends on the platform (Windows does not support thread priorities)
- 2. By default main thread has priority 5
- 3. Thread default priorities are inherited by parent thread (It also depends on the platform)
- 4. If multiple threads have same priority then which thread will get the chance to execute first depends on the JVM (thread schedular)

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=> sleep() method :

- → This method is used to pause the current running thread for the provided time period
- → sleep() method is static method thus we have to call it by class name i.e. Thread class

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- → sleep() methods throws InterruptedException thus we have to use throws keyword or "trycatch block"
- → We can provide time as 0 but it cannot be negative integer value (java.lang.lllegalArgumentException)
- → JVM does not provide the guarantee that the sleeping thread will invoke exactly after provided time period
- → When the thread goes into sleeping stage then it doesnt release the lock

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=> yield() method :-Ve Develop

- → This method stops the current thread execution and provide the chance to the other thread to execute
- → Output is not constant in case of yield() method

→ NOTE :-

- Till JDK 5 version, yield() method internally calls the sleep() method
- After JDK 5 version, yield() method working has been changed. It provides the hint to the thread schedular to yield(stop), but it totally depends on the thread-schedular that it will accept its request or not.
- If current running thread is stoped or yield, then which thread will get the chance for execution depends on the thread-schedular

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Company Name: Smart Programming (+91 62838-30308)

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