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Thread class methods (Part 3) in Java

=> What is difference between sleep(), yield() and join()

Property	sleep()	yield()	join()
1. Purpose	This method will pause the current running thread execution for particular time period	This method will pause the current running thread and provides the chance to another thread of same or higher priority to execute	This method will pause the current running thread execution and waits for another thread to complete its task.
2. How threads are invoked ?	1. automatically after provided time period 2. if the thread is interrupted	1. automatically invoked by thread-schedular	1. automatically invokes after the another thread completes its task 2. automatically invokes after provided time period 3. if the thread is interrupted
3. Methods	1. static native void sleep(long millis) 2. static void sleep(long millis, int nanos)	1. public static native void yield();	1. final void join() 2. final synchronized void join(long millis) 3. final synchronized void join(long millis, int nanos)
4. is method overloaded	yes	no	yes
5. throws exception ?	yes (InterruptedException)	no	yes (InterruptedException)
6. Is method static ?	yes	yes	no
7. is method native ?	one is native and another is not native	yes	no
8. is method final ?	no	no	yes
9. Examples :-	timer (digital clocks), ppt, blinking blubs	billing counter	college, licence dept etc

=> Thread class methods :-

6. Thread interrupting methods :-

➔ interrupt() - It is used to interrupt the sleeping or waiting thread

➔ isInterrupted() - It is used to check the thread interrupt status. It will return true if interrupt status is true otherwise it will return false

➔ interrupted() - It is used to check the thread interrupt status but if the interrupt status is true it will change the interrupt status into false.

=> interrupt() :-

➔ It is used to interrupt the thread
➔ It will work only when the thread is in sleeping or waiting state otherwise interrupt statement will be of no use
➔ It throws an exception "java.lang.InterruptedException"

=> What is difference between isInterrupted() and interrupted() method ?

1. isInterrupted() method does not change the interrupt status
   interrupted() method change the interrupt status

2. isInterrupted() method is non-static method
   interrupted() method is static method

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