Priority of a Thread (Thread Priority)

Each thread has a priority. Priorities are represented by a number between 1 and 10. In most cases, the thread scheduler schedules the threads according to their priority (known as preemptive scheduling). But it is not guaranteed because it depends on JVM specification that which scheduling it chooses. Note that not only JVM a Java programmer can also assign the priorities of a thread explicitly in a Java program.

Setter & Getter Method of Thread Priority

Let's discuss the setter and getter method of the thread priority.

**public final int getPriority():** The java.lang.Thread.getPriority() method returns the priority of the given thread.

**public final void setPriority(int newPriority):** The java.lang.Thread.setPriority() method updates or assign the priority of the thread to newPriority. The method throws IllegalArgumentException if the value newPriority goes out of the range, which is 1 (minimum) to 10 (maximum).

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3 constants defined in Thread class:

1. public static int MIN\_PRIORITY
2. public static int NORM\_PRIORITY
3. public static int MAX\_PRIORITY

Default priority of a thread is 5 (NORM\_PRIORITY). The value of MIN\_PRIORITY is 1 and the value of MAX\_PRIORITY is 10.