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# We Develop We Develop Thread class methods (Part 1) in Java

#### => Thread class constructors :-

- 1. public Thread() { }
- 2. public Thread(Runnable target) { }
- 3. public Thread(String name) { }
- 4. public Thread(Runnable target, String name) { }
- 5. public Thread(ThreadGroup group, Runnable target) { }
- 6. public Thread(ThreadGroup group, String name) { }
- public Thread(ThreadGroup group, Runnable target, String name) { }
- 8. public Thread(ThreadGroup group, Runnable target, String name, long stackSize) { }

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# => Thread class methods :-

## 1. Simple methods :-

- → run() this method contains the thread task
- → start() this method is used to create thread

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- → currentThread() this method returns the reference of current running thread
- → isAlive() this method is used to check wether the thread is running or not

# 2. Naming Methods:-

- → getName() this method is used to get the current running thread name
- → setName(String name) this method is used to set the name of current running thread

## 3. Daemon thread methods:

- → isDaemon() this method is used to check wether the thread is daemon thread or not
- → setDaemon(boolean b) this method is used to create daemon thread

#### => Daemon Threads :-

- → Daemon threads are the threads which are executed in the background of another thread
- → For example : Garbage collector, finalizer, spelling checker in word etc
- → Daemon thread is used to provide the service to the other threads
- → Daemon thread methods:
  - isDaemon()
  - setDaemon(boolean b)

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- → Note:
- 1. We cannot create the running thread as daemon thread. If we try to create daemon thread after thread has started then it will throw an exception saying "java.lang.lllegalThreadStateException"
- 2. We cannot create main thread as daemon thread because JVM starts the main thread before we create it as daemon thread

- Daemon thread life depends on another thread in which it is running
- 4. Daemon thread inherits the properties/nature from its parent thread
- 5. JVM can stop the daemon thread but it cannot stop the normal thread
- 6. It is recommended to make the lowest priority of daemon thread

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## ⇒ Thread class methods diagram :

```
#Thread" class methods (Part 1)

public class Thread implements Runnable {

public void run() {-}
public synchronized void start() {-}
public static native Thread currentThread();
public final native boolean isAlive();

public final String getName() {-}
public final synchronized void setName(String name) {-}

public final boolean isDaemon() {-}
public final void setDaemon(boolean on) {-}

public final int getPriority() {-}
public final void setPriority(int newPriority) {-}

---- (many more methods)
```

```
#Thread" class methods (Part 2)

public class Thread implements Runnable {
    ---- (many more methods)

public static native void sleep(long millis) throws InterruptedException;
public final void join() throws InterruptedException {-}
public final void suspend() {-}
public final void resume() {-}
public final void stop() {-}
public void destroy() {-}

public void interrupt() {-}
public boolean isInterrupted() {-}
public static boolean interrupted() {-}
}
```

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