

JAVA.LANG.THREADGROUP.LIST METHOD

http://www.tutorialspoint.com/java/lang/threadgroup_list.htm

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Description

The **java.lang.ThreadGroup.list** method prints information about this thread group to the standard output. This is useful only for debugging.

Declaration

Following is the declaration for **java.lang.ThreadGroup.list** method

```
public void list()
```

Parameters

- NA

Return Value

This method does not return any value.

Exception

- NA

Example

The following example shows the usage of java.lang.ThreadGroup.list method.

```
package com.tutorialspoint;

import java.lang.*;

public class ThreadGroupDemo implements Runnable
{
    public static void main(String[] args) {
        ThreadGroupDemo tg = new ThreadGroupDemo();
        tg.func();
    }

    public void func() {
        try {
            // create a parent ThreadGroup
            ThreadGroup pGroup = new ThreadGroup("Parent ThreadGroup");

            // create a child ThreadGroup for parent ThreadGroup
            ThreadGroup cGroup = new ThreadGroup(pGroup, "Child ThreadGroup");

            // create a thread
            Thread t1 = new Thread(pGroup, this);
            System.out.println("Starting " + t1.getName() + "...");
            t1.start();

            // create another thread
            Thread t2 = new Thread(cGroup, this);
            System.out.println("Starting " + t2.getName() + "...");
            t2.start();

            // listing contents of parent ThreadGroup
            System.out.println("\nListing parentThreadGroup: " +
                pGroup.getName() + ":");
            // prints information about this thread group to the standard output
            pGroup.list();
        }
    }
}
```

```

        // listing contents of child ThreadGroup
        System.out.println("\nListing childThreadGroup : " +
            cGroup.getName() + ":");
        // prints information about this thread group to the standard output
        cGroup.list();

        // block until the other threads finish
        t1.join();
        t2.join();
    }
    catch (InterruptedException ex) {
        System.out.println(ex.toString());
    }
}

// implements run()
public void run() {

    for(int i = 0; i < 1000; i++) {
        i++;
    }
    System.out.println(Thread.currentThread().getName() +
        " finished executing.");
}
}

```

Let us compile and run the above program, this will produce the following result:

```

Starting Thread-0...
Starting Thread-1...

Listing parentThreadGroup: Parent ThreadGroup:
java.lang.ThreadGroup[name=Parent ThreadGroup,maxpri=10]
  Thread[Thread-0,5,Parent ThreadGroup]
  Thread-1 finished executing.
Thread-0 finished executing.
java.lang.ThreadGroup[name=Child ThreadGroup,maxpri=10]
  Thread[Thread-1,5,Child ThreadGroup]

Listing childThreadGroup : Child ThreadGroup:
java.lang.ThreadGroup[name=Child ThreadGroup,maxpri=10]
  Thread[Thread-1,5,Child ThreadGroup]

```

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