

JAVA.LANG.THREADGROUP.PARENTOF METHOD

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

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Description

The **java.lang.ThreadGroup.parentOf** method tests if this thread group is either the thread group argument or one of its ancestor thread groups.

Declaration

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

```
public final boolean parentOf(ThreadGroup g)
```

Parameters

- **g** -- This is a thread group.

Return Value

This method returns true if this thread group is the thread group argument or one of its ancestor thread groups; false otherwise.

Exception

- **NA**

Example

The following example shows the usage of java.lang.ThreadGroup.parentOf 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();

            // determine which ThreadGroup is parent
            boolean isParent = pGroup.parentOf(cGroup);
            System.out.println(pGroup.getName() + " is the parent of "
                + cGroup.getName() + "? " + isParent);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```

        isParent = cGroup.parentOf(pGroup);
        System.out.println(cGroup.getName() + " is the parent of "
            + pGroup.getName() + "? " + isParent);

        // 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...
Thread-0 finished executing.
Parent ThreadGroup is the parent of Child ThreadGroup? true
Child ThreadGroup is the parent of Parent ThreadGroup? false
Thread-1 finished executing.

```

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