

JAVA.LANG.THREAD.GETALLSTACKTRACES METHOD

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

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Description

The **java.lang.Thread.getAllStackTraces** method returns a map of stack traces for all live threads. The map keys are threads and each map value is an array of **StackTraceElement** that represents the stack dump of the corresponding **Thread**.

Declaration

Following is the declaration for **java.lang.Thread.getAllStackTraces** method

```
public static Map<Thread, StackTraceElement[]> getAllStackTraces()
```

Parameters

- NA

Return Value

This method returns a Map from Thread to an array of StackTraceElement that represents the stack trace of the corresponding thread.

Exception

- **SecurityException** -- if a security manager exists and its checkPermission method doesn't allow getting the stack trace of thread.

Example

The following example shows the usage of java.lang.Thread.getAllStackTraces method.

```
package com.tutorialspoint;

import java.lang.*;
import java.util.*;

public class ThreadDemo implements Runnable {

    public void run() {

        System.out.println("This is run() method");
    }

    public static void main(String args[]) {

        ThreadDemo trace = new ThreadDemo();
        Thread t = new Thread(trace);

        // this will call run() method
        t.start();

        // returns a map of stack traces
        Map m = Thread.getAllStackTraces();
    }
}
```

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

```
This is run() method
```

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