

JAVA.LANG.THROWABLE.GETSTACKTRACE METHOD

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

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Description

The **java.lang.Throwable.printStackTrace** method returns an array of stack trace elements, each representing one stack frame. The zeroth element of the array *assuming the array's length is non-zero* represents the top of the stack, which is the last method invocation in the sequence. This is the point at which this throwable was created and thrown.

The last element of the array *assuming the array's length is non-zero* represents the bottom of the stack, which is the first method invocation in the sequence.

Declaration

Following is the declaration for **java.lang.Throwable.printStackTrace** method

```
public StackTraceElement[] getStackTrace()
```

Parameters

- NA

Return Value

This method returns an array of stack trace elements representing the stack trace pertaining to this throwable.

Exception

- NA

Example

The following example shows the usage of java.lang.Throwable.printStackTrace method.

```
package com.tutorialspoint;

import java.lang.*;

public class ThrowableDemo {

    public static void main(String[] args) {

        try {
            ExceptionFunc();
        }
        catch(Throwable e) {
            // access to the stack trace
            StackTraceElement[] trace = e.getStackTrace();
            System.err.println(trace[0].toString());
        }

        public static void ExceptionFunc()throws Throwable {

            Throwable t = new Throwable("This is new Exception...");
            StackTraceElement[] trace = new StackTraceElement[] {
                new StackTraceElement("ClassName", "methodName", "fileName", 15)
            };

            // sets the stack trace elements
            t.setStackTrace(trace);
        }
    }
}
```

```
        throw t;
    }
}
```

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

```
ClassName.methodName(fileName:15)
```

```
Loading [Mathjax]/jax/output/HTML-CSS/jax.js
```