

JAVA.LANG.CLASS.GETDECLAREDFIELDS METHOD

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

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Description

The **java.lang.Class.getDeclaredFields** method returns an array of Field objects including public, protected, default *package* access, and private fields, but excludes inherited fields. The method returns an array of length 0 if the class or interface declares no fields, or if this Class object represents a primitive type, an array class, or void.

Declaration

Following is the declaration for **java.lang.Class.getDeclaredFields** method

```
public Field[] getDeclaredFields() throws SecurityException
```

Parameters

- NA

Return Value

This method returns the array of Field objects representing all the declared fields of this class.

Exception

- **SecurityException** -- If a security manager, s, is present.

Example

The following example shows the usage of java.lang.Class.getDeclaredFields method.

```
package com.tutorialspoint;

import java.lang.reflect.*;

public class ClassDemo {

    public static void main(String[] args) {

        try {
            ClassDemo c = new ClassDemo();
            Class cls = c.getClass();

            // returns the array of Field objects
            Field[] fields = cls.getDeclaredFields();
            for(int i = 0; i < fields.length; i++) {
                System.out.println("Field = " + fields[i].toString());
            }
        } catch (Exception e) {
            System.out.println(e.toString());
        }
    }

    public ClassDemo() {
        // no argument constructor
    }

    public ClassDemo(long l, int i) {
        this.l = l;
        this.i = i;
    }
}
```

```
long l = 77688;  
int i = 3;  
}
```

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

```
Field = long ClassDemo.l  
Field = int ClassDemo.i
```

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