

JAVA.LANG.CLASS.GETDECLAREDMETHODS METHOD

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

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Description

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

Declaration

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

```
public Method[] getDeclaredMethods() throws SecurityException
```

Parameters

- NA

Return Value

This method returns the array of Method objects representing all the declared methods of this class.

Exception

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

Example

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

```
package com.tutorialspoint;

import java.lang.reflect.*;

public class ClassDemo {

    public static void main(String[] args) {

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

        // returns the array of Method objects
        Method[] m = c.getDeclaredMethods();
        for(int i = 0; i < m.length; i++) {
            System.out.println("method = " + m[i].toString());
        }
    }

    public ClassDemo() {
        // no argument constructor
    }

    public void showString(String string1) {
        this.string1 = string1;
    }

    private void showInteger(Integer i) {
        this.i = i;
    }

    public Integer i = 10;
```

```
private String string1 = "tutorialspoint";  
}
```

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

```
method = public static void ClassDemo.main(java.lang.String[])  
method = public void ClassDemo.showString(java.lang.String)  
method = private void ClassDemo.showInteger(java.lang.Integer)
```

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