JAVA.LANG.CLASS.GETDECLAREDCLASSES METHOD

Description

The **java.lang.Class.getDeclaredClasses** method returns an array of Class objects including public, protected, default *package* access, and private classes and interfaces declared by the class, but excludes inherited classes and interfaces.

This method returns an array of length 0 if the class declares no classes or interfaces as members, or if this Class object represents a primitive type, an array class, or void.

Declaration

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

```
public Class<?>[] getDeclaredClasses() throws SecurityException
```

Parameters

- **NA**

Return Value

This method returns the array of Class objects representing all the declared members of this class.

Exception

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

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class ClassDemo {

   public static void main(String[] args) {

     try {
        // returns the Class object associated with this class
        Class cls = Class.forName("ClassDemo");

        /* returns the array of Class objects representing all the declared
        members of this class */
        Class[] classes = cls.getDeclaredClasses();
        for (int i = 0; i < classes.length; i++) {
           System.out.println("Class = " + classes[i].getName());
        }
     }
     catch (ClassNotFoundException e) {
        System.out.println(e.toString());
     }
   }

   public class InnerClass1 {
      public InnerClass1() {
         System.out.println("Inner Class1");
      }
   }
```

```
   public class InnerClass2 {
      public InnerClass2() {
         System.out.println("Inner Class2");
      }
   }

   private class InnerPrivateClass {
      public InnerPrivateClass() {
         System.out.println("Inner Private Class");
      }
   }
}
```

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

```
Class = ClassDemo$InnerPrivateClass
Class = ClassDemo$InnerClass2
Class = ClassDemo$InnerClass1
```