

JAVA.LANG.CLASS.NEWINSTANCE METHOD

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

Copyright © tutorialspoint.com

Description

The **java.lang.Class.newInstance** creates a new instance of the class represented by this Class object. The class is instantiated as if by a new expression with an empty argument list. The class is initialized if it has not already been initialized. .

Declaration

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

```
public T newInstance() throws InstantiationException, IllegalAccessException
```

Parameters

- NA

Return Value

This method returns a newly allocated instance of the class represented by this object.

Exception

- **IllegalAccessException** -- if the class or its nullary constructor is not accessible.
- **InstantiationException** -- If this Class represents an abstract class, an interface, an array class, a primitive type, or void; or if the class has no nullary constructor; or if the instantiation fails for some other reason.
- **ExceptionInInitializerError** -- If the initialization provoked by this method fails.
- **SecurityException** -- If a security manager, s, is present.

Example

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

```
package com.tutorialspoint;

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

public class ClassDemo {

    public static void main(String[] args) {

        try {
            // date object
            Date d = new Date();
            Class cls = d.getClass();
            System.out.println("Time = " + d.toString());

            /* creates a new instance of the class represented by this
            Class object cls */
            Object obj = cls.newInstance();
            System.out.println("Time = " + obj);
        }
        catch(InstantiationException e) {
            System.out.println(e.toString());
        }
        catch(IllegalAccessException e) {
            System.out.println(e.toString());
        }
    }
}
```

```
}  
}  
}
```

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

```
Time = Tue Oct 23 16:09:55 MST 2012
```

```
Time = Tue Oct 23 16:09:55 MST 2012
```

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