

JAVA.LANG.CLASS.GETGENERICSUPERCLASS METHOD

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

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Description

The **java.lang.Class.getGenericSuperClass** returns the Type representing the direct superclass of the entity *class*, *interface*, *primitivetype* or *void* represented by this Class.

Declaration

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

```
public Type getGenericSuperclass()
```

Parameters

- NA

Return Value

This method returns the superclass of the class represented by this object.

Exception

- **GenericSignatureFormatError** -- If the generic class signature does not conform to the format specified in the Java Virtual Machine Specification, 3rd edition.
- **TypeNotPresentException** -- If the generic superclass refers to a non-existent type declaration .
- **MalformedParameterizedTypeException** -- If the generic superclass refers to a parameterized type that cannot be instantiated for any reason.

Example

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

```
package com.tutorialspoint;

import java.lang.reflect.*;
import java.util.ArrayList;

public class ClassDemo {

    public static void main(String args[]) {

        // returns the superclass
        Type t = IntegerClass.class.getGenericSuperclass();
        System.out.println(t);

        ParameterizedType p = (ParameterizedType)t;
        System.out.println(p.getActualTypeArguments()[0]);
    }
}

class IntegerClass extends ArrayList<Integer> {
    public IntegerClass() {
        // no argument constructor
    }
}
```

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

```
java.util.ArrayList<java.lang.Integer>  
class java.lang.Integer
```

```
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```