

# JAVA.LANG.CLASS.ASSUBCLASS METHOD

[http://www.tutorialspoint.com/java/lang/class\\_assubclass.htm](http://www.tutorialspoint.com/java/lang/class_assubclass.htm)

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## Description

The **java.lang.Class.asSubclass** method casts this Class object to represent a subclass of the class represented by the specified class object. It is useful when a client needs to "narrow" the type of a Class object to pass it to an API that restricts the Class objects that it is willing to accept.

## Declaration

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

```
public <U> Class<? extends U> asSubclass(Class<U> clazz)
```

## Parameters

- NA

## Return Value

This method returns this Class object, cast to represent a subclass of the specified class object.

## Exception

- **ClassCastException** -- if this Class object does not represent a subclass of the specified class *in this "subclass" includes the class itself.*

## Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class ClassDemo {

    public static void main(String[] args) {

        try {
            ClassDemo cls = new ClassDemo();
            ClassDemo subcls = new SubClass1();

            // class ClassDemo
            Class c = cls.getClass();
            System.out.println(c);

            // sub class SubClass1
            Class c1 = subcls.getClass();
            System.out.println(c1);

            // represent a subclass of the specified class object
            Class retval = c1.asSubclass(c);

            System.out.println(retval);
        }

        catch(ClassCastException e) {
            System.out.println(e.toString());
        }
    }
}
```

```
class SubClass1 extends ClassDemo {  
    // sub class  
}
```

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

```
class ClassDemo  
class SubClass1  
class SubClass1
```

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