

JAVA.LANG.CLASS.ISASSIGNABLEFROM METHOD

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

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Description

The **java.lang.Class.isAssignableFrom** determines if the class or interface represented by this Class object is either the same as, or is a superclass or superinterface of, the class or interface represented by the specified Class parameter.

Declaration

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

```
public boolean isAssignableFrom(Class<?> cls)
```

Parameters

- **cls** -- This is the Class object to be checked.

Return Value

This method returns the boolean value indicating whether objects of the type cls can be assigned to objects of this class.

Exception

- **NullPointerException** -- if the specified Class parameter is null.

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class ClassDemo {

    public static void main(String[] args) {

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

            // class object associated with BaseClass
            Class bClass = BaseClass.class;

            // checks whether BaseClass is assignable from ClassDemo
            boolean retval = bClass.isAssignableFrom(c);
            System.out.println("Return Value = " + retval);

            // checks whether ClassDemo is assignable from BaseClass
            retval = c.isAssignableFrom(bClass);
            System.out.println("Return Value = " + retval);
        }

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

// base class
class BaseClass extends ClassDemo {
```

```
public BaseClass() {  
    // no argument constructor  
}  
}
```

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

```
Return Value = false  
Return Value = true
```

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