

JAVA.LANG.MATH.COPYSIGN METHOD

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

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Description

The **java.lang.Math.copySign***floatmagnitude, floatsign* returns the first floating-point argument with the sign of the second floating-point argument.

Declaration

Following is the declaration for **java.lang.Math.copySign** method

```
public static double copySign(float magnitude, float sign)
```

Parameters

- **magnitude** -- the parameter providing the magnitude of the result
- **sign** -- the parameter providing the sign of the result

Return Value

This method returns a value with the magnitude of magnitude and the sign of sign.

Exception

- NA

Example

The following example shows the usage of lang.Math.copySign method.

```
package com.tutorialspoint;

import java.lang.*;

public class MathDemo {

    public static void main(String[] args) {

        // get two float numbers
        float x = 125.9f;
        float y = -0.4873f;

        // print a double with the magnitude of x and the sign of y
        System.out.println("Math.copySign(" + x + "," + y + ")="
            + Math.copySign(x, y));

        // print a double with the magnitude of y and the sign of x
        System.out.println("Math.copySign(" + y + "," + x + ")="
            + Math.copySign(y, x));

    }
}
```

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

```
Math.copySign(125.9f, -0.4873f)=-125.9
Math.copySign(-0.4873f, 125.9f)=0.4873
```

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