

JAVA.LANG.MATH.SQRT METHOD

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

Copyright © tutorialspoint.com

Description

The **java.lang.Math.sqrt** method returns the correctly rounded positive square root of a double value. Special cases:

- If the argument is NaN or less than zero, then the result is NaN.
- If the argument is positive infinity, then the result is positive infinity.
- If the argument is positive zero or negative zero, then the result is the same as the argument.

Otherwise, the result is the double value closest to the true mathematical square root of the argument value.

Declaration

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

```
public static double sqrt(double a)
```

Parameters

- **a** -- a value.

Return Value

This method returns the positive square root of a. If the argument is NaN or less than zero, the result is NaN.

Exception

- **NA**

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class MathDemo {

    public static void main(String[] args) {

        // get two double numbers numbers
        double x = 9;
        double y = 25;

        // print the square root of these doubles
        System.out.println("Math.sqrt(" + x + ")=" + Math.sqrt(x));
        System.out.println("Math.sqrt(" + y + ")=" + Math.sqrt(y));
    }
}
```

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

```
Math.sqrt(9)=3.0
Math.sqrt(25)=5.0
```

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