

JAVA.LANG.STRICTMATH.ACOS METHOD

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

Copyright © tutorialspoint.com

Description

The **java.lang.StrictMath.acos** method returns the arc cosine of a value, the returned angle is in the range **0.0 through pi**. If the argument is NaN or its absolute value is greater than 1, then the result is NaN.

Declaration

Following is the declaration for **java.lang.StrictMath.acos** method

```
public static double acos(double a)
```

Parameters

- **a** -- This is the value whose arc cosine is to be returned.

Return Value

This method returns the arc cosine of the argument.

Exception

- **NA**

Example

The following example shows the usage of java.lang.StrictMath.acos method.

```
package com.tutorialspoint;

import java.lang.*;

public class StrictMathDemo {

    public static void main(String[] args) {

        double d1 = 0.90 , d2 = 5.00;

        // returns the arc cosine of a value
        double dAbsValue = StrictMath.acos(d1);
        System.out.println("arc cosine value of " + d1 + " = " + dAbsValue);

        // returns NaN if argument is NaN or its absolute value is greater than 1
        dAbsValue = StrictMath.acos(d2);
        System.out.println("arc cosine value of " + d2 + " = " + dAbsValue);
    }
}
```

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

```
cosine value of 0.9 = 0.45102681179626236
cosine value of 5.0 = NaN
```

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