

JAVA.LANG.STRICTMATH.ASIN METHOD

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

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Description

The **java.lang.StrictMath.asin** method returns the arc sine of a value. The returned angle is in the range **-pi/2 through pi/2**. It includes these cases:

- If the argument is NaN or its absolute value is greater than 1, then the result is NaN.
- If the argument is zero, then the result is a zero with the same sign as the argument.

Declaration

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

```
public static double asin(double a)
```

Parameters

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

Return Value

This method returns the arc sine of the argument.

Exception

- **NA**

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class StrictMathDemo {

    public static void main(String[] args) {

        double d1 = 0.90 , d2 = 5.00, d3 = 0;

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

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

        // returns zero if the argument is 0
        dAbsValue = StrictMath.asin(d3);
        System.out.println("arc sine value of " + d3 + " = " + dAbsValue);
    }
}
```

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

```
arc sine value of 0.9 = 1.1197695149986342
arc sine value of 5.0 = NaN
arc sine value of 0.0 = 0.0
```

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