

JAVA.LANG.STRICTMATH.GETEXPONENT METHOD

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

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Description

The **java.lang.StrictMath.getExponent***doubled* method returns the unbiased exponent used in the representation of a double. It include some cases:

- If the argument is NaN or infinite, then the result is Double.MAX_EXPONENT + 1.
- If the argument is zero or subnormal, then the result is Double.MIN_EXPONENT -1.

Declaration

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

```
public static int getExponent(double d)
```

Parameters

- **d** -- This is the double value.

Return Value

This method returns the unbiased exponent used in the representation of a double.

Exception

- NA

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class StrictMathDemo {

    public static void main(String[] args) {

        double d1 = 16.2 , d2 = 512.3;

        // returns the unbiased exponent used in the representation of a double
        double exponentValue = StrictMath.getExponent(d1);
        System.out.println("Exponent value of " + d1 + " = " + exponentValue);

        exponentValue = StrictMath.getExponent(d2);
        System.out.println("Exponent value of " + d2 + " = " + exponentValue);
    }
}
```

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

```
Exponent value of 16.2 = 4.0
Exponent value of 512.3 = 9.0
```

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