

JAVA.LANG.STRICTMATH.GETEXPONENT METHOD

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

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Description

The **java.lang.StrictMath.getExponent(float)** method returns the unbiased exponent used in the representation of a float. It includes some cases:

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

Declaration

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

```
public static int getExponent(float f)
```

Parameters

- **f** -- This is the float value.

Return Value

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

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) {

        float f1 = 32 , f2 = 1024;

        // returns the unbiased exponent used in the representation of a float
        double exponentValue = StrictMath.getExponent(f1);
        System.out.println("Exponent value of " + f1 + " = " + exponentValue);

        exponentValue = StrictMath.getExponent(f2);
        System.out.println("Exponent value of " + f2 + " = " + exponentValue);
    }
}
```

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

```
Exponent value of 32.0 = 5.0
Exponent value of 1024.0 = 10.0
```

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