

JAVA.LANG.MATH.GETEXPONENT METHOD

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

Copyright © tutorialspoint.com

Description

The **java.lang.Math.getExponent***floatf* returns the unbiased exponent used in the representation of a float. Special 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.Math.getExponent** method

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

Parameters

- **f** -- a float value

Return Value

This method returns the unbiased exponent of the argument

Exception

- NA

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class MathDemo {

    public static void main(String[] args) {

        // get two float numbers
        float x = 60984.1f;
        float y = -497.99f;

        // print the unbiased exponent of them
        System.out.println("Math.getExponent(" + x + ")=" + Math.getExponent(x));
        System.out.println("Math.getExponent(" + y + ")=" + Math.getExponent(y));
        System.out.println("Math.getExponent(0f)=" + Math.getExponent(0f));
    }
}
```

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

```
Math.getExponent(60984.1f)=15
Math.getExponent(-497.99f)=8
Math.getExponent(0f)=-127
```

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