

JAVA.LANG.MATH.ABS METHOD

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

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Description

The **java.lang.Math.absfloat** returns the absolute value of a float value. If the argument is not negative, the argument is returned. If the argument is negative, the negation of the argument is returned. Special cases:

- If the argument is positive zero or negative zero, the result is positive zero.
- If the argument is infinite, the result is positive infinity.
- If the argument is NaN, the result is NaN.

Declaration

Following is the declaration for **java.lang.Math.abs** method

```
public static float abs(float a)
```

Parameters

- **a** -- the argument whose absolute value is to be determined

Return Value

This method returns the absolute value of the argument.

Exception

- **NA**

Example

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

```
package com.tutorialspoint;

import java.lang.*;

public class MathDemo {

    public static void main(String[] args) {

        // get some floats to find their absolute values
        float x = 1.2345f;
        float y = -857.54f;

        // get and print their absolute values
        System.out.println("Math.abs(" + x + ")=" + Math.abs(x));
        System.out.println("Math.abs(" + y + ")=" + Math.abs(y));
        System.out.println("Math.abs(-145.0f)=" + Math.abs(-145.0f));
    }
}
```

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

```
Math.abs(1.2345f)=1.2345
Math.abs(-857.54f)=857.54
Math.abs(-145.0f)=145.0
```

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