

JAVA.LANG.FLOAT.FLOATTORAWINTBITS METHOD

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

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Description

The **java.lang.Float.floatToRawIntBits** method returns a representation of the specified floating-point value according to the IEEE 754 floating-point "single format" bit layout, preserving Not-a-Number *NaN* values. It includes the following important points:

- If the argument is positive infinity, the result is 0x7f800000.
- If the argument is negative infinity, the result is 0xff800000.
- If the argument is NaN, the result is the integer representing the actual NaN value. Different from `floatToIntBits` method, `floatToRawIntBits` does not collapse all the bit patterns encoding a NaN to a single "canonical" NaN value.

Declaration

Following is the declaration for **java.lang.Float.floatToRawIntBits** method

```
public static int floatToRawIntBits(float value)
```

Parameters

- **value** -- This is a floating-point number.

Return Value

This method returns the bits that represent the floating-point number.

Exception

- **NA**

Example

The following example shows the usage of `java.lang.Float.floatToRawIntBits` method.

```
package com.tutorialspoint;

import java.lang.*;

public class FloatDemo {

    public static void main(String[] args) {

        Float f = new Float("20.12");

        //returns the bits that represent the floating-point number
        System.out.println("Value = " + f.floatToRawIntBits(9.0f));
    }
}
```

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

```
Value = 1091567616
```

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