

JAVA.MATH.BIGINTEGER.DOUBLEVALUE METHOD

http://www.tutorialspoint.com/java/math/biginteger_doublevalue.htm

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Description

The **java.math.BigInteger.doubleValue** converts this BigInteger to a double. This conversion is similar to the narrowing primitive conversion from double to float.

If this BigInteger has too great a magnitude to represent as a double, it will be converted to Double.NEGATIVE_INFINITY or Double.POSITIVE_INFINITY as appropriate. Even when the return value is finite, this conversion can lose information about the precision of the BigInteger value.

Declaration

Following is the declaration for **java.math.BigInteger.doubleValue** method

```
public double doubleValue()
```

Specified by

doubleValue in class **Number**

Parameters

- NA

Return Value

This method returns this BigInteger converted to a double.

Exception

- NA

Example

The following example shows the usage of math.BigInteger.doubleValue method

```
package com.tutorialspoint;

import java.math.*;

public class BigIntegerDemo {

    public static void main(String[] args) {

        // create 2 BigInteger objects
        BigInteger bi1, bi2;

        // create 2 Double objects
        Double d1, d2;

        // assign value to bi1
        bi1 = new BigInteger("123");

        // assign a larger value to bi2
        bi2 = new BigInteger("12345678");

        // assign double value of bi1, bi2 to d1, d2
        d1 = bi1.doubleValue();
        d2 = bi2.doubleValue();

        String str1 = "Double value of " + bi1 + " is " +d1;
        String str2 = "Double value of " + bi2 + " is " +d2;
```

```
// print d1, d2 values
System.out.println( str1 );
System.out.println( str2 );
    }
}
```

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

```
Double value of 123 is 123.0
Double value of 12345678 is 1.2345678E7
```

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