

JAVA.MATH.BIGDECIMAL.LONGVALUEEXACT METHOD

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

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Description

The **java.math.BigDecimal.longValueExact** converts this BigDecimal to a long, checking for lost information. If this BigDecimal has a nonzero fractional part or is out of the possible range for a long result then an ArithmeticException is thrown.

Declaration

Following is the declaration for **java.math.BigDecimal.longValueExact** method

```
public long longValueExact()
```

Parameters

- NA

Return Value

This method returns the long value of the BigDecimal Object

Exception

- **ArithmeticException** - if this has a nonzero fractional part, or will not fit in a long

Example

The following example shows the usage of math.BigDecimal.longValueExact method

```
package com.tutorialspoint;

import java.math.*;

public class BigDecimalDemo {

    public static void main(String[] args) {

        // create 2 BigDecimal objects
        BigDecimal bg1, bg2;

        // create 2 long objects
        long l1,l2;

        bg1 = new BigDecimal("-429");
        bg2 = new BigDecimal("3.3E+10");

        // assign the long value of bg1 and bg2 to l1,l2 respectively
        l1 = bg1.longValueExact();
        l2 = bg2.longValueExact();

        String str1 = "Exact Long value of " + bg1 + " is " + l1;
        String str2 = "Exact Long value of " + bg2 + " is " + l2;

        // print l1,l2 values
        System.out.println( str1 );
        System.out.println( str2 );

    }
}
```

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

Exact Long value of -429 is -429

Exact Long value of 3.3E+10 is 33000000000

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