

JAVA.MATH.BIGDECIMAL.MULTIPLY METHOD

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

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Description

The **java.math.BigDecimal.multiply***BigDecimal multiplicand, MathContext mc* returns a BigDecimal whose value is *this* × *multiplicand*, with rounding according to the context settings.

Declaration

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

```
public BigDecimal multiply(BigDecimal multiplicand, MathContext mc)
```

Parameters

- **multiplicand** - value to be multiplied by this BigDecimal
- **mc** - the context to use

Return Value

This method returns a BigDecimal whose value this * multiplicand, rounded as necessary

Exception

- **ArithmeticException** - if the result is inexact but the rounding mode is UNNECESSARY

Example

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

```
package com.tutorialspoint;

import java.math.*;

public class BigDecimalDemo {

    public static void main(String[] args) {

        // create 3 BigDecimal objects
        BigDecimal bg1, bg2, bg3;

        MathContext mc = new MathContext(4); // 4 precision

        bg1 = new BigDecimal("2.310");
        bg2 = new BigDecimal("4.620");

        // multiply bg1 with bg2 using mc
        bg3 = bg1.multiply(bg2, mc);

        String str = "Multiplication Result is " +bg3;

        // print bg3 value
        System.out.println( str );

    }
}
```

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

```
Multiplication Result is 10.67
```

```
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```