

JAVA.MATH.BIGDECIMAL.DIVIDE METHOD

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

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Description

The **java.math.BigDecimal.divide***BigDecimal divisor, RoundingMode roundingMode* returns a BigDecimal whose value is *this/divisor*, and whose scale is *this.scale*. If rounding must be performed to generate a result with the given scale, the specified rounding mode is applied.

Declaration

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

```
public BigDecimal divide(BigDecimal divisor, RoundingMode roundingMode)
```

Parameters

- **divisor** - value by which this BigDecimal is to be divided
- **roundingMode** - rounding mode to apply

Return Value

This method returns a BigDecimal object whose value is *this / divisor*, rounded as necessary

Exception

- **ArithmeticException** - if *divisor == 0*, or *roundingMode == RoundingMode.UNNECESSARY* and *this.scale* is insufficient to represent the result of the division exactly

Example

The following example shows the usage of `math.BigDecimal.divide` method.

```
package com.tutorialspoint;

import java.math.*;
import java.lang.*;

public class BigDecimalDemo {

    public static void main(String[] args) {

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

        bg1 = new BigDecimal("16");
        bg2 = new BigDecimal("3");

        // divide bg1 with bg2 rounding up
        bg3 = bg1.divide(bg2, RoundingMode.UP);

        String str = "Division result is " +bg3;

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

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

```
Division result is 6
```

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