

JAVA.MATH.BIGDECIMAL.DIVIDE METHOD

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

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Description

The **java.math.BigDecimal.divide***BigDecimal divisor* returns a BigDecimal whose value is *this/divisor*, and whose preferred scale is *this.scale() - divisor.scale()*. If the exact quotient cannot be represented because it has a non-terminating decimal expansion an **ArithmeticException** is thrown.

Declaration

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

```
public BigDecimal divide(BigDecimal divisor)
```

Parameters

- **divisor** - value by which this BigDecimal is to be divided

Return Value

This method returns a BigDecimal object whose value is *this / divisor*

Exception

- **ArithmeticException** - if the exact quotient does not have a terminating decimal expansion

Example

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

```
package com.tutorialspoint;

import java.math.*;

public class BigDecimalDemo {

    public static void main(String[] args) {

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

        bg1 = new BigDecimal("45");
        bg2 = new BigDecimal("5");

        bg3 = bg1.divide(bg2); // divide bg1 with bg2

        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 9
```

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