

# JAVA.MATH.BIGDECIMAL.SUBTRACT METHOD

[http://www.tutorialspoint.com/java/math/bigdecimal\\_subtract\\_mc.htm](http://www.tutorialspoint.com/java/math/bigdecimal_subtract_mc.htm)

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## Description

The **java.math.BigDecimal.subtract***BigDecimal subtrahend, MathContext mc* returns a BigDecimal whose value is *this* – *subtrahend*, with rounding according to the context settings. If subtrahend is zero then this, rounded if necessary, is used as the result. If this is zero then the result is *subtrahend.negate**mc*.

## Declaration

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

```
public BigDecimal subtract(BigDecimal subtrahend, MathContext mc)
```

## Parameters

- **subtrahend** - value to be subtracted from this BigDecimal
- **mc** - the context to use

## Return Value

This method returns the value of BigDecimal object after subtraction with the subtrahend i.e this - subtrahend, 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.subtract 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(2); // 2 precision

        bg1 = new BigDecimal("100.123");
        bg2 = new BigDecimal("50.56");

        // subtract bg1 with bg2 using mc and assign result to bg3
        bg3 = bg1.subtract(bg2, mc);

        String str = "The Result of Subtraction is " + bg3;

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

    }
}
```

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

The Result of Subtraction is 50

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