

JAVA.MATH.BIGDECIMAL.ABS METHOD

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

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Description

The **java.math.BigDecimal.abs***MathContextmc* returns a BigDecimal whose value is the absolute value of this BigDecimal, with rounding according to the context settings.

Declaration

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

```
public BigDecimal abs(MathContext mc)
```

Parameters

- **mc** - the context to use.

Return Value

This method returns the absolute value of the called value i.e *absthis*, 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.abs` 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);
        MathContext mc1 = new MathContext(4);

        // assign value to bg1
        bg1 = new BigDecimal("40.1234");

        // assign absolute value of bg1 to bg2 rounded to 2 precision using mc
        bg2 = bg1.abs(mc);

        // assign absolute value of bg1 to bg3 rounded to 4 precision using mc1
        bg3 = bg1.abs(mc1);

        String str1, str2;
        str1 = "Absolute value, rounded to 2 precision is " + bg2;
        str2 = "Absolute value, rounded to 4 precision is " + bg3;

        // print bg2 and bg3 value
        System.out.println( str1 );
        System.out.println( str2 );
    }
}
```

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

```
Absolute value, rounded to 2 precision is 40  
Absolute value, rounded to 4 precision is 40.12  
Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```