

# JAVA.MATH.BIGDECIMAL.POW METHOD

[http://www.tutorialspoint.com/java/math/bigdecimal\\_pow.htm](http://www.tutorialspoint.com/java/math/bigdecimal_pow.htm)

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## Description

The **java.math.BigDecimal.pow** returns a BigDecimal whose value is (this<sup>n</sup>), The power is computed exactly, to unlimited precision.

The parameter n must be in the range 0 through 999999999, inclusive. ZERO.pow0 returns ONE.

## Declaration

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

```
public BigDecimal pow(int n)
```

## Parameters

- **n** - power to raise this BigDecimal to.

## Return Value

This method returns the value of BigDecimal Object raised to the power of n i.e this<sup>n</sup>

## Exception

- **ArithmeticException** - if n is out of range

## Example

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

```
package com.tutorialspoint;

import java.math.*;

public class BigDecimalDemo {

    public static void main(String[] args) {

        // create 2 BigDecimal Objects
        BigDecimal bg1, bg2;

        bg1 = new BigDecimal("2.17");

        // apply pow method on bg1
        bg2 = bg1.pow(3);

        String str = "The value of " + bg1 + " to the power of 3 is " + bg2;

        // print bg2 value
        System.out.println( str );

    }
}
```

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

```
The value of 2.17 to the power of 3 is 10.218313
```

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