

JAVA.MATH.BIGINTEGER.POW METHOD

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

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Description

The **java.math.BigInteger.pow***intexponent* returns a BigInteger whose value is (this^{exponent}). The exponent is an integer rather than a BigInteger.

Declaration

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

```
public BigInteger pow(int exponent)
```

Parameters

- **exponent** - exponent to which this BigInteger is to be raised

Return Value

This method returns a BigInteger object whose value is this^{exponent}.

Exception

- **ArithmeticException** - exponent is negative. This would cause the operation to yield a non-integer value.

Example

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

```
package com.tutorialspoint;

import java.math.*;

public class BigIntegerDemo {

    public static void main(String[] args) {

        // create 2 BigInteger objects
        BigInteger bi1, bi2;

        // create and assign value to exponent
        int exponent = 2;

        // assign value to bi1
        bi1 = new BigInteger("6");

        // perform pow operation on bi1 using exponent
        bi2 = bi1.pow(exponent);

        String str = "Result is " + bi1 + "^" +exponent+ " = " +bi2;

        // print bi2 value
        System.out.println( str );
    }
}
```

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

```
Result is 6^2 = 36
```

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