JAVA.MATH.BIGINTEGER.CLEARBIT METHOD

Description

The **java.math.BigInteger.clearBit*intn*** returns a BigInteger whose value is equivalent to this BigInteger with the designated bit cleared. It computes (this & ~(1<<n)).

Declaration

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

```
public BigInteger clearBit(int n)
```

Parameters

- **n** - index of bit to clear

Return Value

This method returns a BigInteger object of value, this & $\sim 1 << n$

Exception

- **ArithmeticException** - n is negative

Example

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

```
package com.tutorialspoint;

import java.math.*;

public class BigIntegerDemo {

   public static void main(String[] args) {

 // create 2 BigInteger objects
 BigInteger bi1, bi2;

 // assign value to bi1
 bi1 = new BigInteger("7");

 // perform clearbit operation on bi1 with index 2
 bi2 = bi1.clearBit(2);

 String str = "Clearbit operation on " +bi1+ " at index 2 gives " +bi2;

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

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

```
Clearbit operation on 7 at index 2 gives 3
```