JAVA.MATH.BIGDECIMAL.INTVALUEEXACT METHOD

Description

The **java.math.BigDecimal.intValueExact** converts this BigDecimal to an int, checking for lost information. If this BigDecimal has a nonzero fractional part or is out of the possible range for an int result then an ArithmeticException is thrown.

Declaration

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

```
public int intValueExact()
```

Parameters

- **NA**

Return Value

This method returns the int value of the BigDecimal Object

Exception

- **ArithmeticException** - if this has a nonzero fractional part, or will not fit in an int

Example

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

```
package com.tutorialspoint;

import java.math.*;

public class BigDecimalDemo {

    public static void main(String[] args) {

        // create 2 BigDecimal objects
        BigDecimal bg1, bg2;

        //Create two int Object
        int i1, i2;

        bg1 = new BigDecimal("40");
        bg2 = new BigDecimal("4E+1");

        // assign the exact int value of bg1 and bg2 to i1,i2 respectively
 i1 = bg1.intValueExact();
        i2 = bg2.intValueExact();

 String str1 = "Exact int value of " + bg1 + " is " + i1;
 String str2 = "Exact int value of " + bg2 + " is " + i2;

        // print i1,i2 values
        System.out.println( str1 );
        System.out.println( str2 );
    }
}
```

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

```
Exact int value of 40 is 40
Exact int value of 4E+1 is 40
```