JAVA.MATH.BIGDECIMAL.REMAINDER METHOD

Description

The **java.math.BigDecimal.remainder***BigDecimaldivisor* method returns a BigDecimal whose value is *this*.

The remainder is given by this.subtract*this*. *divideToIntegralValue*(*divisor*.multiply*divisor*). This is not the modulo operation i.e the result can be negative.

Declaration

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

```
public BigDecimal remainder(BigDecimal divisor)
```

Parameters

- **divisor** - value by which this BigDecimal is to be divided

Return Value

This method returns the remainder when BigDecimal object is divided by the divisor i.e, this % divisor

Exception

- **ArithmeticException** - if divisor==0

Example

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

```
package com.tutorialspoint;

import java.math.*;

public class BigDecimalDemo {

    public static void main(String[] args) {

        // create 3 BigDecimal Objects
        BigDecimal bg1, bg2, bg3;

        bg1 = new BigDecimal("513.54");
        bg2 = new BigDecimal("5");

        // bg2 divided by bg1 gives bg3 as remainder
        bg3 = bg1.remainder(bg2);

 String str = "The remainder is " + bg3;

 // print the value of bg3
        System.out.println( str );
    }
}
```

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

```
The remainder is 3.54
```