

JAVA.UTIL.SCANNER.NEXTBIGDECIMAL METHOD

http://www.tutorialspoint.com/java/util/scanner_nextbigdecimal.htm

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Description

The **java.util.Scanner.nextBigDecimal** method scans the next token of the input as a BigDecimal. If the next token matches the Decimal regular expression defined above then the token is converted into a BigDecimal value as if by removing all group separators, mapping non-ASCII digits into ASCII digits via the Character.digit, and passing the resulting string to the *BigDecimalString* constructor.

Declaration

Following is the declaration for **java.util.Scanner.nextBigDecimal** method

```
public BigDecimal nextBigDecimal()
```

Parameters

- NA

Return Value

This method returns the BigDecimal scanned from the input

Exception

- **InputMismatchException** -- if the next token does not match the Decimal regular expression, or is out of range
- **NoSuchElementException** -- if the input is exhausted
- **IllegalStateException** -- if this scanner is closed

Example

The following example shows the usage of java.util.Scanner.nextBigDecimal method.

```
package com.tutorialspoint;

import java.util.*;

public class ScannerDemo {

    public static void main(String[] args) {

        String s = "Hello World! 3 + 3.0 = 6 true";

        // create a new scanner with the specified String Object
        Scanner scanner = new Scanner(s);

        // find the next BigDecimal token and print it
        // loop for the whole scanner
        while (scanner.hasNext()) {

            // if the next is BigDecimal, print found and the decimal
            if (scanner.hasNextBigDecimal()) {
                System.out.println("Found :" + scanner.nextBigDecimal());
            }

            // if a BigDecimal is not found, print "Not Found" and the token
            System.out.println("Not Found :" + scanner.next());
        }
    }
}
```

```
// close the scanner
scanner.close();
}
}
```

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

```
Not Found :Hello
Not Found :World!
Found :3
Not Found :+
Not Found :3.0
Not Found :=
Found :6
Not Found :true
```

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