

JAVA.UTIL.SCANNER.NEXTDOUBLE METHOD

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

Copyright © tutorialspoint.com

Description

The **java.util.Scanner.nextDouble** method scans the next token of the input as a double. This method will throw `InputMismatchException` if the next token cannot be translated into a valid double value. If the translation is successful, the scanner advances past the input that matched.

Declaration

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

```
public double nextDouble()
```

Parameters

- NA

Return Value

This method returns the double scanned from the input

Exception

- **InputMismatchException** -- if the next token does not match the Float 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.nextDouble` 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);

        // use US locale to be able to identify doubles in the string
        scanner.useLocale(Locale.US);

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

            // if the next is a double, print found and the double
            if (scanner.hasNextDouble()) {
                System.out.println("Found :" + scanner.nextDouble());
            }

            // if a double 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 :3.0
Not Found :+
Found :3.0
Not Found :=
Found :6.0
Not Found :true
```

Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js