JAVA.UTIL.SCANNER.NEXTFLOAT METHOD

Description

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

Declaration

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

```
public float nextFloat()
```

Parameters

- **NA**

Return Value

This method returns the float 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.nextFloat method.

```
package com.tutorialspoint;

import java.util.*;

public class ScannerDemo {

   public static void main(String[] args) {

   String s = "Hello World! 3 + 3.0 = 6.0 true ";
   Float f = 1.2385f;
   s = s + f;

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

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

   // find the next float token and print it
   // loop for the whole scanner
   while (scanner.hasNext()) {
   scanner.next();
   // if the next is a float, print found and the float
   if (scanner.hasNextFloat()) {
   System.out.println("Found :" + scanner.nextFloat());
   }
   }
```

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

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

```
Found :3.0
Found :3.0
Found :6.0
Found :1.2385
```