

# JAVA.LANG.FLOAT.TOHEXSTRING METHOD

[http://www.tutorialspoint.com/java/lang/float\\_tohexstring.htm](http://www.tutorialspoint.com/java/lang/float_tohexstring.htm)

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## Description

The **java.lang.Float.toHexString** method returns a hexadecimal string representation of the float argument **f**. Some examples can be seen here:

| Floating-point Value    | Hexadecimal String |
|-------------------------|--------------------|
| 1.0                     | 0x1.0p0            |
| -1.0                    | -0x1.0p0           |
| 2.0                     | 0x1.0p1            |
| 3.0                     | 0x1.8p1            |
| 0.5                     | 0x1.0p-1           |
| 0.25                    | 0x1.0p-2           |
| Float.MAX_VALUE         | 0x1.fffffep127     |
| Minimum Normal Value    | 0x1.0p-126         |
| Maximum Subnormal Value | 0x0.fffffep-126    |
| Float.MIN_VALUE         | 0x0.000002p-126    |

## Declaration

Following is the declaration for **java.lang.Float.toHexString** method

```
public static String toHexString(float f)
```

## Parameters

- **f** -- This is the float to be converted.

## Return Value

This method returns a hex string representation of the argument.

## Exception

- **NA**

## Example

The following example shows the usage of **java.lang.Float.toHexString** method.

```
package com.tutorialspoint;  
  
import java.lang.*;  
  
public class FloatDemo {
```

```

public static void main(String[] args) {

    Float f = new Float("50.32");

    /* returns a hexadecimal string representation of the
    float argument */
    String str = f.toHexString(1.0f);
    System.out.println("Hex String = " + str);

    str = f.toHexString(3.0f);
    System.out.println("Hex String = " + str);

    str = f.toHexString(0.25f);
    System.out.println("Hex String = " + str);

    str = f.toHexString(Float.MIN_VALUE);
    System.out.println("Hex String = " + str);
}
}

```

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

```

Hex String = 0x1.0p0
Hex String = 0x1.8p1
Hex String = 0x1.0p-2
Hex String = 0x0.000002p-126

```

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