JavaScript Math log() method

The JavaScript math **log()** method returns the natural logarithm of the given number i.e. base e. If the number is negative, it returns **NaN.**

Syntax

The log() method is represented by the following syntax:

```
Math.log(num)
```

Parameter

num - A number.

Return

The natural logarithm of a number.

JavaScript Math log() method example

Here, we will understand log() method through various examples.

Example 1

Let's see an example to print the natural logarithm of a number.

```
<script>
document.writeln(Math.log(1)+"<br>");
                     Math.log(5)+"<br>");
```

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```
document.writeln(Math.log(10));
</script>
```

Test it Now

Output:

```
0
1.6094379124341003
2.302585092994046
```

Example 2

Let's see the result of log() method in different test cases.

```
<script>
document.writeln(Math.log()+"<br>");
document.writeln(Math.log(-5)+"<br>");
document.writeln(Math.log(0));
</script>
```

Test it Now

Output:

```
NaN
NaN
-Infinity
```

Example 3

Here, you can test log() method with your own test cases.

```
<script>
function display()
{
  var x=document.getElementById("num").value;
  document.getElementById("result").innerHTML=Math.log(x);
}
```

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```
Enter a number: <input type="text" id="num">

<input type="button"  onclick="display()" value="submit">

</form>

<p><span id="result"></span></p>
```

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