PROGRAM 6

AIM:Create an html page to explain the use of various predefined functions in string and math object in javascript?

CODE

```
<html>
<head>
</head>
<frameset cols="50%,50%">
<frame src="string.html">
<frame src="math1.html">
</frameset>
</html>
```

string.html

```
<html>
<head</head>
<body>
<h2 align="center" id="docs">STRING FUNCTIONS</h2>
<hr width="35%">
<div class="docs" style="margin-top:4em;">
<div class="row">
<div class="content">
<h3 align="center">substr()</h3>
<hr width="45%" color="#989898">
<p> Returns the characters in a string beginning at the specified location through the
```

specified number of characters.

<h3 align="center">toLowerCase()</h3>

<hr width="45%" color="#989898">

Returns the calling string value converted to lower case.

<h3 align="center">toUpperCase()</h3>

<hr width="45%" color="#989898">

Returns the calling string value converted to uppercase.

<h3 align="center">charCodeAt()</h3>

<hr width="45%" color="#989898">

 Returns a number indicating the Unicode value of the character at the given index.

<h3 align="center"> charAt()</h3>

<hr width="45%" color="#989898">

Returns a string containing the source of the Boolean object; you can use this string to

create an

equivalent object..

```
<div class="content">
<h3 align="center">concat()</h3>
<hr width="45%" color="#989898">
<p>Combines the text of two strings and returns a new string.</p>
</div>
</div>
<div class="row">
<div class="content">
<h3 align="center"> indexOf()</h3>
<hr width="45%" color="#989898">
<p> Returns the index within the calling String object of the first occurrence of the
specified value,
or -1 if not found.</p>
</div>
<div class="content">
<h3 align="center">length()</h3>
<hr width="45%" color="#989898">
<p>Returns the length of the string.</p>
</div>
<div class="content">
<h3 align="center"> replace()</h3>
<hr width="45%" color="#989898">
<p>Used to find a match between a regular expression and a string, and to replace the
matched substring
with a new substring.</p>
</div>
</div>
```

```
<div class="row">
<div class="content">
<h3 align="center"> search()</h3>
<hr width="45%" color="#989898">
<p>Executes the search for a match between a regular expression and a specified string.
</p>
</div>
<div class="content">
<h3 align="center"> slice()</h3>
<hr width="45%" color="#989898">
<p>Extracts a section of a string and returns a new string.</p>
</div>
<div class="content">
<h3 align="center"> split()</h3>
<hr width="45%" color="#989898">
<p>Splits a String object into an array of strings by separating the string into substrings.
</p>
</div>
</div>
</body>
</html>
```

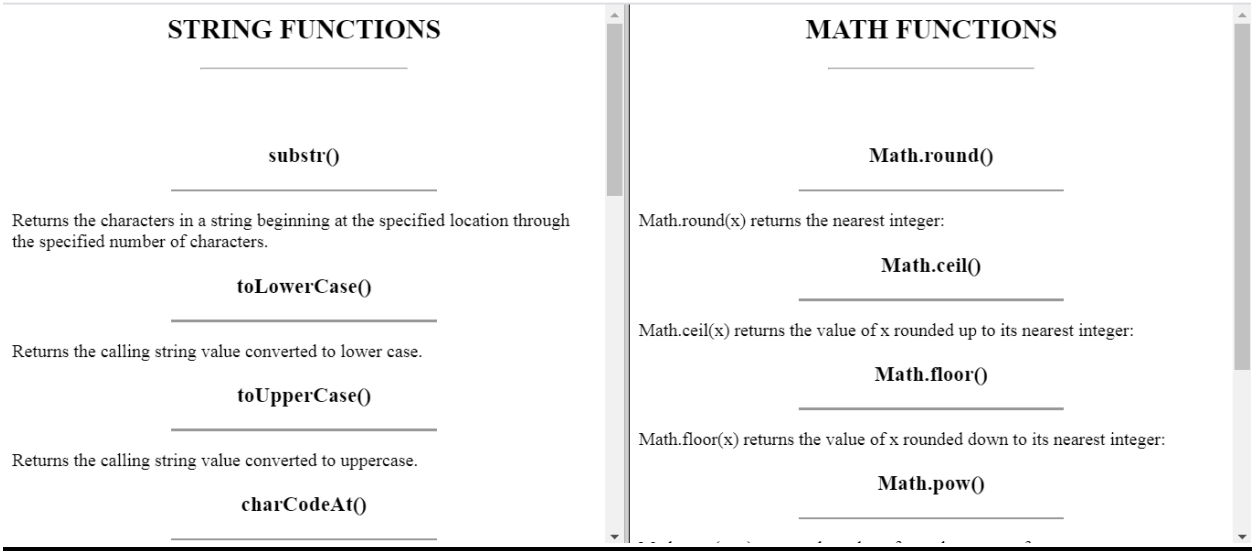
Math.html

```
<html>
<head</head>
<body>
```

```
<h2 align="center" id="docs">MATH FUNCTIONS</h2>
<hr width="35%">
<div class="docs" style="margin-top:4em;">
<div class="row">
<div class="content">
<h3 align="center">Math.round()</h3>
<hr width="45%" color="#989898">
<p> Math.round(x) returns the nearest integer:</p>
</div>
<div class="content">
<h3 align="center">Math.ceil()</h3>
<hr width="45%" color="#989898">
<p>Math.ceil(x) returns the value of x rounded up to its nearest integer:</p>
</div>
<div class="content">
<h3 align="center">Math.floor()</h3>
<hr width="45%" color="#989898">
<p>Math.floor(x) returns the value of x rounded down to its nearest integer:</p>
</div>
</div>
<div class="row">
<div class="content">
<h3 align="center">Math.pow()</h3>
<hr width="45%" color="#989898">
<p> Math.pow(x, y) returns the value of x to the power of y:
</p>
</div>
```

```
<div class="content">
<h3 align="center"> Math.sqrt()</h3>
<hr width="45%" color="#989898">
<p>Math.sqrt(x) returns the square root of x:</p>
</div>
<div class="content">
<h3 align="center">Math.abs()</h3>
<hr width="45%" color="#989898">
<p>Math.abs(x) returns the absolute (positive) value of x:
</p>
</div>
</div>
</div>
</body>
</html>
```

OUTPUT



index.

charAt()

Returns a string containing the source of the Boolean object; you can use this string to create an equivalent object..

concat()

Combines the text of two strings and returns a new string.

indexOf()

Returns the index within the calling String object of the first occurrence of the specified value, or -1 if not found.

length()

Returns the length of the string.

replace()

Math.ceil()

Math.ceil(x) returns the value of x rounded up to its nearest integer:

Math.floor()

Math.floor(x) returns the value of x rounded down to its nearest integer:

Math.pow()

Math.pow(x, y) returns the value of x to the power of y:

Math.sqrt()

Math.sqrt(x) returns the square root of x:

Math.abs()

Math.abs(x) returns the absolute (positive) value of x:

Returns the length of the string.

replace()

Used to find a match between a regular expression and a string, and to replace the matched substring with a new substring.

search()

Executes the search for a match between a regular expression and a specified string.

slice()

Extracts a section of a string and returns a new string.

split()

Splits a String object into an array of strings by separating the string into substrings.

Math.ceil()

Math.ceil(x) returns the value of x rounded up to its nearest integer:

Math.floor()

Math.floor(x) returns the value of x rounded down to its nearest integer:

Math.pow()

Math.pow(x, y) returns the value of x to the power of y:

Math.sqrt()

Math.sqrt(x) returns the square root of x:

Math.abs()

Math.abs(x) returns the absolute (positive) value of x: