

PROGRAMME:6

AIM:

Create a HTML page to explain the use of various predefined functions in a string and math object in java script

CODE:

functions.html:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="style.css">
  <link rel="preconnect" href="https://fonts.gstatic.com">
  <link href="https://fonts.googleapis.com/css2?family=Fascinate&display=swap"
rel="stylesheet">
  <title>Document</title>
</head>

<body>
  <div class="header" id="header">
    <div class="navbar">
      <ul>
        <li><a href="#header">Home</a></li>
        <li><a href="#docs">Documents</a></li>
        <li><a href="">Contact</a></li>
        <li><a href="#about">About</a></li>
      </ul>
    </div>
    <h1>JAVASCRIPT FUNCTIONS</h1>
  </div>
  <h2 align="center" id="docs">PREDEFINED 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.</p>
      </div>
      <div class="content">
```

```

    <h3 align="center">toLowerCase()/h3>
    <hr width="45%" color="#989898">
    <p>Returns the calling string value converted to lower case.</p>
</div>
<div class="content">
    <h3 align="center">toUpperCase()/h3>
    <hr width="45%" color="#989898">
    <p>Returns the calling string value converted to uppercase.</p>
</div>
</div>
<div class="row">
    <div class="content">
        <h3 align="center">charCodeAt()/h3>
        <hr width="45%" color="#989898">
        <p>Returns a number indicating the Unicode value of the character at the given index.
        </p>
    </div>
    <div class="content">
        <h3 align="center">charAt()/h3>
        <hr width="45%" color="#989898">
        <p>Returns a string containing the source of the Boolean object; you can use this string to
        create an
        equivalent object..</p>
    </div>
    <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>
<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>

```



```
Math.E    // returns Euler's number
Math.PI   // returns PI
Math.SQRT2 // returns the square root of 2
Math.SQRT1_2 // returns the square root of 1/2
Math.LN2   // returns the natural logarithm of 2
Math.LN10  // returns the natural logarithm of 10
Math.LOG2E // returns base 2 logarithm of E
Math.LOG10E // returns base 10 logarithm of E
```

</div>

</div>

<div class="obj" style="color:#989898;padding: 1.5em;">

<h2 align="center">Math methodes</h2>

<hr width="35%">

<p align="center" style="margin-left:20px;margin-top:4em;">The syntax for any Math property is : <span

style="border:1px solid #FBD285;padding: 4px;margin-right: 2px;">

Math.methode(number)
</p>

<dl>

<dt>

<u>Math.round()</u>

</dt>

<dd>

Math.round(x) returns the nearest integer:

</dd>

<dt>

<u>Math.ceil()</u>

</dt>

<dd>

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

</dd>

<dt>

<u>Math.floor()</u>

</dt>

<dd>

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

</dd>

<dt>

<u>Math.pow()</u>

</dt>

<dd>

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

</dd>

<dt>

<u>Math.sqrt()</u>

</dt>

```

        <dd>
            Math.sqrt(x) returns the square root of x:
        </dd>
        <dt>
            <u>Math.abs()</u>
        </dt>
    <dd>
        Math.abs(x) returns the absolute (positive) value of x:
    </dd>
</dl>
</div>
</div>
</div>
<br><br><br><br>
<div id="about"></div>
</body>
</html>

```

style.css:

```

@import url('https://fonts.googleapis.com/css2?
family=Fascinate&family=Ravi+Prakash&display=swap'); *
{
    box-sizing: border-box; }
html{ scroll-behavior:
smooth; } body{
width:100%; height:100vh;
padding:0px; margin:0px;
display: block; background-
color: #403552;

}
.header{ width:
100%;
height:100%;
margin: auto; }
.navbar{
height:70px;
position:sticky;
top:0px; }
h1{
text-align: center;
color:#FBD285; font-family:
'Fascinate', cursive; margin-
top:5em; letter-spacing: 3px;

```

```
font-size: 45px; } ul{
display: flex; flex-
direction: row;
justify-content: flex-end; }
li{ list-style-type:
none;
padding: 2em;

}
a{
text-decoration: none;
color:#FBD285; font-family:
'Fascinate', cursive;
font-family: 'Ravi Prakash', cursive;
} a:hover{
color:#A981FF;
font-weight:bolder; }
h2{
color:#989898;
}
.row{
display:flex; flex-
direction: row; width:
100%;
margin-top: 2em;
}
.content{
margin:1em;
padding: 1em;
width:30%;
height:210px;
box-shadow: rgba(0, 0, 0, 0.24) 0px 3px 8px; border-
radius: 5px;
}
.content:hover{
box-shadow: rgba(0, 0, 0, 0.3) 0px 19px 38px, rgba(0, 0, 0, 0.22) 0px 15px 12px;
border:none;
}
h3{
color:#989898;
}
p{
color:#989898;
}
```

```
.container{
display:flex; flex-
direction:row;
width:100%;
}
.desc{ width:
45%;
margin:1.5em;
padding: 2em;
}
.example{ width:45%;
margin:1.5em;
padding:1em;
color:#989898; border:
1px solid #989898;
border-radius: 5px;
}
.obj{ width: 60%;
margin: auto; border: 1px
solid #989898;
border-radius: 5px;
}
dl{ margin: 2em 0 0
4em; } dd,dt{ margin-
top:1.5em; }
```

OUTPUT:



