## 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:

function.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Javascript methodes</title>
 <link rel="stylesheet" href="style.css">
 <script src="script.js"></script>
</head>
<body>
 <div class="header">
   <h1 align="center">STRING FUNCTIONS IN JAVASCRIPT</h1>
   Enter a string:
      <input type="text" id="string">
     Index string:
      <input type="text" id="idx_string">
     Search string:
      <input type="text" id="srh_string">
     Slice string:
      <input type="text" id="slice_string">
     Sub string:
      <input type="text" id="sub_string">
```

Replacing string:

```
<input type="text" id="rpc string">
      Replace with:
       <input type="text" id="rpc1_string">
      <input type="button" value="Generate"
          onclick="strResult()">
      <div class="string result" id="string result">
    <h1 align="center">MATH OBJECT IN JAVASCRIPT</h1>
    Enter a number
       <input type="number" name="num" id="num">
      Enter power
       <input type="number" name="pow" id="pow">
      <input type="button" value="Generate"
          onclick="mathRresult()">
      </div>
  <div class="math result" id="math result">
  </div>
  <br><br>>
</body>
</html>
script.js
const strResult = (e) \Rightarrow \{
 let str_inp = document.getElementById('string').value;
 let str_indx = document.getElementById('idx_string').value;
 let str srh = document.getElementById('srh string').value
 let str_slice = document.getElementById('slice_string').value
 let str_sub = document.getElementById('sub_string').value
 let str rpc = document.getElementById('rpc string').value
 let str_rpc1 = document.getElementById('rpc1_string').value
 let content = "jazzjohn@jazzjohn-Lenovo-V145-15AST:output$ Length of the string is:" +
   str inp.length
 content += "<br/>br>The index of the word " + str_indx + " is:" +
   (parseInt(str inp.indexOf(str indx)) + 1)
```

```
content += "<br/>br>The last index of the word " + str indx + " is:" +
    (parseInt(str inp.lastIndexOf(str indx)) + 1)
  content += "<br/>br>The position of the searched word " + str srh + " is:" +
    (parseInt(str inp.search(str srh)) + 1)
  content += "<br/>br>The string after slicing is:" + (str_inp.slice(str_inp.indexOf(str_slice),
    (str inp.indexOf(str slice) + str slice.length)))
  content += "<br/>br>The substring is:" + (str_inp.substr(str_inp.indexOf(str_sub), str_sub.length))
  content += "<br/>br>The string after replacing with " + str rpc + " is:" + (str inp.replace(str rpc1,
  content += "<br/>br>The upper case form of the string is:" + str_inp.toUpperCase()
  content += "<br/>br>The Lower case form of the string is:" + str_inp.toLowerCase()
  document.getElementById("string result").innerHTML = content
  document.getElementById("string result").style.display="block";
}
const mathRresult = () => {
  let num = document.getElementBvId("num").value
  let pow = document.getElementById("pow").value
  let content = "jazzjohn@jazzjohn-Lenovo-V145-15AST:output$ " + num + " raised to " + pow +
    " is : " + Math.pow(num, pow)
  content += "<br > Square root of " + num + " is : " + Math.sqrt(num)
  content += "<br > round of " + num + " is: " + Math.round(num)
  content += "<br/>ceil value of " + num + " is: " + Math.ceil(num)
  content += "<br> floor value of " + num + " is: " + Math.floor(num)
  content += "<br > absolute value of" + num + " is : " + Math.abs(num)
  content += "<br> sine value of " + num + " is: " + Math.sin(num)
  content += "<br/>cosine value of " + num + " is: " + Math.cos(num)
  content += "<br/>br> minimum value in (0, 150, 30, 20, -8, -200) is : " + Math.min(0, 150, 30, 20, -
    8, -200);
  content += "<br/>br> maximum value in (0, 150, 30, 20, -8, -200) is : " + Math.max(0, 150, 30, 20, -
    8, -200);
  content += "<br > Randome number is : " + Math.random()
  content += "<br/>br> pi value is : " + Math.PI
  document.getElementById("math_result").innerHTML = content
  document.getElementById("math_result").style.display="block";
}
style.css
table {
 margin-top: 2em;
 padding: 2em;
 border: 1px solid black;
 border-radius: 8px;
input[type="button"] {
 margin-top: 0.5em;
 width: 10em;
 background-color: rgb(52, 148, 92);
 padding: 0.5em 1em 0.5em 1em;
 border-radius: 5px;
```

```
}
input[type="text"],
input[type="number"] {
 border-radius: 4px;
 padding: 0 1em 0 1em;
 border: 1px solid black;
 height: 1.8em;
.math_result,
.string_result {
 display:none;
 width: 50%;
 padding: 2em;
 align-items: center;
 margin-left: 25%;
 margin-top: 2em;
 border: 1px solid rgb(61, 61, 61);
 color: rgb(206, 200, 200);
 background-color: rgb(71, 71, 71);
 border-radius: 4px;
```

## Output:





