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

```
<ht
ml
lan
q="
en"
       <head>
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width,</pre>
       initial-scale=1.0">
          <title>String and Math functions</title>
          <style>
              div {
                  text-align: center;
                  border-bottom: 2px solid black;
                  padding-bottom: 2em;
              }
              h2 {
                  text-transform: uppercase;
                  text-align: center;
                  margin-top: 2em;
                  width: 100%;
                  padding: 5px;
                  color: #222324;
                  font-family: 'Courier New', Courier, monospace;
```

```
box-shadow: 0 4px 10px 0 rgba(0, 0, 0, 0.2), 0 4px 20px 0
rgba(0, 0, 0, 0.19);
      }
      table,
      tr,
      td,
       th {
         padding: 1em;
       }
       table {
          width: 100%;
       }
       th {
         text-align: left;
      }
      .selector {
          padding: .5em;
          background-color: #002607;
          color: white;
         border: none;
         outline: none;
         border-radius: 5px;
          font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida
Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;
      }
```

```
text-align: left;
        margin-top: 5px;
        padding: 10px;
     }
     ul {
        background-color: #1a1b1c;
        color: white;
     }
  </style>
</head>
<body>
  <div>
     <h2>String Functions</h2>
     Enter a text
              <input type="text" id="input srting"
name="input_s">
           Search a text
               <input type="text" id="input_search"
name="input_search">
           Slice start
```

```
<input type="text" id="slice_s"
name="slice s">
           Slice end
             <input type="text" id="slice e"
name="slice_e">
           Replace the word
             <input type="text" id="replace_f">
           Replace with
             <input type="text" id="replace_s">
           <input type="button" value="Generate" class="selector"</pre>
onclick="string func()">
     <br><br><
     ul id="output"> 
  </div>
  <div>
     <h2>Math Functions</h2>
```

```
Enter a Number
                  <input type="text" id="input num">
             Power term
                  <input type="text" id="input_pow">
             <input type="button" value="Generate" class="selector"</pre>
onclick="math func()">
      <br><br><
      ul id="output math"> 
  </div>
  <script>
      function string_func() {
         let input = document.getElementById('input srting').value;
         let search = document.getElementById('input search').value;
         let slice_s = document.getElementById('slice_s').value;
         let slice_e = document.getElementById('slice_e').value;
         let replace f = document.getElementById('replace f').value;
         let replace_s = document.getElementById('replace_s').value;
```

```
let li 0 = '';
          let li C = '';
          let list items;
          list items = li 0 + 'Length of string is : ' + input.length
+ li C;
          list items += li 0 + 'First index of ' + search + ' is ' +
input.indexOf(search) + li C;
           list items += li 0 + 'Last index of ' + search + ' is ' +
input.lastIndexOf(search) + li C;
           list items += li 0 + 'Index with search starting position 5
of ' + search + ' is ' + input.indexOf(search, 5) + li_C;
           list items += li 0 + 'Search ' + search + ' is ' +
input.search(search) + li C;
           list items += li 0 + 'Slice[' + slice s + ' : ] is ' +
input.slice(slice s) + li C;
           list items += li 0 + 'Slice[' + slice s + ' : ' + slice e +
'] is ' + input.slice(slice_s, slice_e) + li_C;
           list items += li 0 + 'Substring[' + slice s + ' : ' + slice e
+ '] is ' + input.substring(slice_s, slice_e) + li_C;
           list items += li 0 + 'Substr[' + slice s + ' :] is ' +
input.substr(slice s) + li C;
           list items += li 0 + 'Substr[' + slice s + ' :] with length '
+ slice_e + ' is ' + input.substr(slice_s, slice_e) + li_C;
           list items += li O + 'replace ' + replace f + ' with ' +
replace s + ' is ' + input.replace(replace f, replace s) + li C;
          list items += li 0 + 'Uppercase : ' + input.toUpperCase() +
li C;
          list items += li 0 + 'lowercase : ' + input.toLowerCase() +
li C;
          document.getElementById('output').innerHTML = (list items);
       }
       function math func() {
           let input = document.getElementById('input num').value;
           let power = document.getElementById('input pow').value;
           let li 0 = '';
```

```
let list items;
          list items = li O + 'Value of PI : ' + Math.PI + li C;
          list items += li 0 + 'Round of '+input+' is : ' +
Math.round(input) + li C;
           list_items += li_0 + ''+input+' raise to '+power+' is : ' +
Math.pow(input,power) + li C;
           list_items += li_0 + 'Square root of '+input+' is : ' +
Math.sqrt(input) + li C;
           list items += li O + 'Absolute value of '+input+' is : ' +
Math.abs(input) + li C;
           list_items += li_0 + 'Ceil value of '+input+' is : ' +
Math.ceil(input) + li C;
           list items += li O + 'Floor value of '+input+' is : ' +
Math.floor(input) + li C;
           list_items += li_0 + 'Sin value of '+input+' is : ' +
Math.sin(input* Math.PI / 180) + li C;
           list items += li O + 'Cos value of '+input+' is : ' +
Math.cos(input* Math.PI / 180) + li_C;
           list items += li 0 + 'Minimum of (0, 150, 30, 20, -8, -200)
is: ' + Math.min(0, 150, 30, 20, -8, -200) + li C;
           list items += li 0 + 'Maximum of (0, 150, 30, 20, -8, -200)
is: ' + Math.max(0, 150, 30, 20, -8, -200) + li C;
          list_items += li_0 + 'A Random number is : ' + Math.random()
+ li C;
          document.getElementById('output math').innerHTML =
(list_items);
      }
   </script>
</body>
</html>
```

let li_C = '';