<!DOCTYPE html>

<html>

    <head>

        <tittle style="background-color:blanchedalmond; color:blue; font-weight: bold;">JAVASCRIPT STRING OBJECT()</tittle>

    </head>

    <style>

        body {

            background-color:aquamarine;

        }

    </style>

    <body>

        <p style="color:mediumvioletred"><strong> 1.Strings: </strong></p>

        <p> <strong>String are written inside single or double quotes: </strong> </p>

        <p id="demo 1"></p>

        <script>

            let carName1 = "scorpio XYLO"; // double quotes

            let carName2 = 'scorpio XYLO'; // single quotes

            document.getElementById("demo 1").innerHTML = carName1 + " " + carName2;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 2.at(): </strong></p>

        <p><strong> The at() method returns an indexed character from a string: </strong></p>

        <p id="demo 2"></p>

       <script>

            let text = "Deepa";

            let character1 = text.at(0);

            let character2 = text.at(2);

            let character3 = text.at();

            let character4 = text.at(-1);

            document.getElementById("demo 2").innerHTML = character1 + "<br>" + character2 + "<br>" +character3 + "<br>" +character4 ;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 3.Bracket Notation[]: </strong></p>

        <p> <strong>The Bracked Notation returns an indexed character from a string: </strong></p>

        <p id="demo 3"></p>

        <script>

            let text1 = "Hello";

            let character5 = text1[2];

            document.getElementById("demo 3").innerHTML = character5;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 4.charAT(): </strong></p>

        <p><strong>charAt() returns the character at a specified index (position) in a string.<br>Get the first character in a string.: </strong></p>

        <p id="demo 4"></p>

        <script>

            let text2 = "HELLO WORLD";

            let letter = text2.charAt(0);

            document.getElementById("demo 4").innerHTML = letter;

        </script>

        <p><strong>charAt() returns the character at a specified index (position) in a string.<br>Get the second character in a string: </strong></p>

        <p id="demo 5"></p>

        <script>

            let text3 = "HELLO WORLD";

            let letter1 = text3.charAt(1);

            document.getElementById("demo 5").innerHTML = letter1;

        </script>

        <p><strong> charAt() returns the character at a specified index (position) in a string.<br>Get the last character in a string:</strong></p>

        <p id="demo 6"></p>

        <script>

            let text4 = "HELLO WORLD";

            let letter2 = text4.charAt(text4.length-1);

            document.getElementById("demo 6").innerHTML = letter2;

        </script>

        <P><strong>charAt() returns the character at a specified index (position) in a string.<br>Index out of range returns empty string. </strong></P>

        <p id="demo 7"></p>

        <script>

            let text5 = "HELLO WORLD";

            let letter3 = text5.charAt(15);

            document.getElementById("demo 7").innerHTML = letter3;

        </script>

        <p><strong>Index out of range returns empty string.</strong></p>

        <p id="demo 8"></p>

        <script>

            let text6 = "HELLO WORLD";

            let letter4 = text6.charAt();

            document.getElementById("demo 8").innerHTML = letter4;

        </script>

        <p><strong> Invalid index converts to default value 0:</strong></p>

        <p id="demo 9"></p>

        <script>

            let text7 = "HELLO WORLD";

            let letter5 = text7.charAt(3.14);

            document.getElementById("demo 9").innerHTML = letter5;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 5.charCodeAT(): </strong></p>

        <p><strong> charCodeAt() returns the Unicode of the character at a specified position in a string.<br>Get the Unicode of the first character:</strong> </p>

        <p id="demo 10"></p>

        <script>

            let text8 = "HELLO WORLD";

            let code = text8.charCodeAt(0);

            document.getElementById("demo 10").innerHTML = code;

        </script>

        <p><strong>charCodeAt() returns the Unicode of the character at a specified position in a string.<br>Get the Unicode of the second character: </strong></p>

        <p id="demo 11"></p>

        <script>

            let text9 = "HELLO WORLD";

            let code1 = text9.charCodeAt(1);

            document.getElementById("demo 11").innerHTML = code1;

        </script>

        <p><strong>charCodeAt() returns the Unicode of the character at a specified position in a string.<br>Get the Unicode of the last character:</strong> </p>

        <p id="demo 12"></p>

        <script>

            let text10 = "HELLO WORLD";

            let code2 = text10.charCodeAt(text10.length-1);

            document.getElementById("demo 12").innerHTML = code2;

        </script>

        <p><strong>charCodeAt() returns the Unicode of the character at a specified position in a string.<br>The 15th character in "HELLO WORLD" returns NaN (Not a Number): </strong></p>

        <p id="demo 13"></p>

        <script>

            let text11 = "HELLO WORLD";

            let code3 = text11.charCodeAt(15);

            document.getElementById("demo 13").innerHTML = code3;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 6.codePointAt(): </strong></p>

        <p><strong>codePointAt() returns the code point of the character at a specified position in a string.<br>Get the code point  of the first character: </strong></p>

        <p id="demo 14"></p>

        <script>

            let text12 = "HELLO WORLD";

            let code4 = text12.codePointAt(0);

            document.getElementById("demo 14").innerHTML = code4;

        </script>

        <p><strong>codePointAt() returns the code point of the character at a specified position in a string.<br>Get the code point of the second character: </strong></p>

        <p id="demo 15"></p>

        <script>

            let text13 = "HELLO WORLD";

            let code5 = text13.codePointAt(1);

            document.getElementById("demo 15").innerHTML = code5;

        </script>

        <p><strong> codePointAt() returns the code Point of the character at a specified position in a string.<br>Get the code point of the last character: </strong></p>

        <p id="demo 16"></p>

        <script>

            let text14 = "HELLO WORLD";

            let code6 = text14.codePointAt(text14.length-1);

            document.getElementById("demo 16").innerHTML = code6;

        </script>

        <p><strong>charCodeAt() returns the code point of the character at a specified position in a string.<br>Get the code at the  15th position: </strong></p>

        <p id="demo 17"></p>

        <script>

            let text15 = "HELLO WORLD";

            let code7 = text15.codePointAt(15);

            document.getElementById("demo 17").innerHTML = code7;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 7.concat(): </strong></p>

        <p><strong>The concat() method joins two or more strings.<br>Join "sea" and "food": </strong></p>

        <p id="demo 18"></p>

        <script>

            let text16 = "Sea";

            let text17 = "Food";

            let result = text16.concat(text17);

            document.getElementById("demo 18").innerHTML = result;

        </script>

        <p><strong>Join "Hello" and "world!" with a space in between: </strong></p>

        <p id="demo 19"></p>

        <script>

            let text18 = "Hello";

            let text19 = "World";

            let result1 = text18.concat(" ", text19);

            document.getElementById("demo 19").innerHTML = result1;

        </script>

        <p><strong>Join 3 strings with a space between each string: </strong></p>

        <p id="demo 20"></p>

        <script>

            let text20 = "Hello";

            let text21 = "World";

            let text22 = "Have a nice day!";

            let result2 = text20.concat(" ", text21, " ", text22);

            document.getElementById("demo 20").innerHTML = result2;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 8.constructor(): </strong></p>

        <p><strong> The constructor property returns the function that created the String prototype: </strong></p>

        <p id="demo 21"></p>

        <script>

            let msg = "Hello World!";

            let text23 =  msg.constructor;

            document.getElementById("demo 21").innerHTML = text23;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 9.ENDS-WITH(): </strong></p>

        <p><strong> endsWith() returns true if a string ends with a specified string, otherwise false.<br>Check if "Hello world" ends with "world":</strong></p>

        <p id="demo abc"></p>

        <script>

            let EW1 = "Hello world";

            let res09 = EW1.endsWith("world");

            document.getElementById("demo abc").innerHTML = res09;

        </script>

        <p id="demo ab"></p>

        <script>

            let EW2 = "Hello world";

            let res19 = EW2.endsWith("World");

            document.getElementById("demo ab").innerHTML = res19;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 10.string.fromCharCode(): </strong></p>

        <p><strong>String.fromCharCode() converts Unicode values to strings<br>Convert 65 to a string: </strong></p>

        <p id="demo 22"></p>

        <script>

            let text\_25 = String.fromCharCode(65);

            document.getElementById("demo 22").innerHTML = text\_25;

        </script>

        <p><strong>Convert 72, 69, 76, 76, 79 to a string: </strong></p>

        <p id="demo 23"></p>

        <script>

            let text\_26 = String.fromCharCode(72, 69, 76, 76, 79);

            document.getElementById("demo 23").innerHTML = text\_26;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 11.string.includes(): </strong></p>

        <p><strong>includes() returns true if a string contains a specified string. </strong></p>

        <p> Find "world": </p>

        <p id="demo 24"></p>

        <script>

            let sas = "Hello world, welcome to the universe.";

            let mno = sas.includes("world");

            document.getElementById("demo 24").innerHTML = mno;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 12.string.indexOf(): </strong></p>

        <p><strong>indexOf() returns the position of the first occurrence of a value in a string</strong></p>

        <p>Find "welcome":</p>

        <p id="demo 25"></p>

        <script>

            let aaa = "Hello world, welcome to the universe.";

            let op = aaa.indexOf("welcome");

            document.getElementById("demo 25").innerHTML = op;

        </script>

        <p>Find "Welcome":</p>

        <p id="demo 26"></p>

        <script>

            let bbb = "Hello world, welcome to the universe.";

            let op1 = bbb.indexOf("Welcome");

            document.getElementById("demo 26").innerHTML = op1;

        </script>

        <p>Find "e":</p>

        <p id="demo 27"></p>

        <script>

            let ccc = "Hello world, welcome to the universe.";

            document.getElementById("demo 27").innerHTML = ccc.indexOf("e");

        </script>

        <p>Find "e", start at position 5:</p>

        <p id="demo 28"></p>

        <script>

            let ddd = "Hello world, welcome to the universe.";

            document.getElementById("demo 28").innerHTML = ddd.indexOf("e", 5);

        </script>

        <p>Find "a":</p>

        <p id="demo 29"></p>

        <script>

            let eee = "Hello world, welcome to the universe.";

            document.getElementById("demo 29").innerHTML = eee.indexOf("a");

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 13.string.lastIndexOf(): </strong></p>

        <p><strong>lastIndexOf() returns the index of the last occurrence of a specified value in a string.</strong></p>

        <p>Find the last occurence of "earth": </p>

        <p id="demo 30"></p>

        <script>

            let fff = "Hello planet earth, you are a great planet.";

            let op2 = fff.lastIndexOf("earth");

            document.getElementById("demo 30").innerHTML = op2;

        </script>

        <p>Find the last occurence of "Earth": </p>

        <p id="demo 31"></p>

        <script>

            let ggg = "Hello planet earth, you are a great planet.";

            let op3 = ggg.lastIndexOf("Earth");

            document.getElementById("demo 31").innerHTML = op3;

        </script>

        <p>Find the last occurence of "earth" starting at position 20: </p>

        <p id="demo 32"></p>

        <script>

            let hhh = "Hello planet earth, you are a great planet.";

            let op4 = hhh.lastIndexOf("earth",20);

            document.getElementById("demo 32").innerHTML = op4;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 14.Length(): </strong></p>

        <p><strong>The length property returns the length of a string. </strong></p>

        <p>Find the length of "Hello World":</p>

        <p id="demo 33"></p>

        <script>

            let iii = "Hello World!";

            let length = iii.length;

            document.getElementById("demo 33").innerHTML = length;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 15.String.localeCompare(): </strong></p>

        <p><strong>localeCompare() returns one of 3 numbers indicating the sort order.</strong></p>

        <ul>

            <li>-1 if sorted before</li>

            <li>1 if sorted after</li>

            <li>0 if equal</li>

        </ul>

        <p>Compare "ab" with "cd":</p>

        <p id="demo 34"></p>

        <script>

            let jjj1 = "ab";

            let jjj2 = "cd";

            let jjj3 = jjj1.localeCompare(jjj2);

            document.getElementById("demo 34").innerHTML = jjj3;

        </script>

        <ul>

            <li>-1 if sorted before</li>

            <li>1 if sorted after</li>

            <li>0 if equal</li>

        </ul>

        <p>Compare "cd" with "ab":</p>

        <p id="demo 35"></p>

        <script>

            let jjj4 = "cd";

            let jjj5 = "ab";

            let jjj6 = jjj4.localeCompare(jjj5);

            document.getElementById("demo 35").innerHTML = jjj6;

        </script>

        <ul>

            <li>-1 if sorted before</li>

            <li>1 if sorted after</li>

            <li>0 if equal</li>

        </ul>

        <p>Compare "ab" with "ab":</p>

        <p id="demo 36"></p>

        <script>

            let jjj7 = "ab";

            let jjj8 = "ab";

            let jjj9 = jjj7.localeCompare(jjj8);

            document.getElementById("demo 36").innerHTML = jjj9;

        </script>

        <ul>

            <li>-1 if sorted before</li>

            <li>1 if sorted after</li>

            <li>0 if equal</li>

        </ul>

        <p>Compare "A" with "a":</p>

        <p id="demo 37"></p>

        <script>

            let jjj10 = "A";

            let jjj11 = "a";

            let jjj12 = jjj10.localeCompare(jjj11);

            document.getElementById("demo 37").innerHTML = jjj12;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 16.Match(): </strong></p>

        <p><strong>match() searches for a match in a string.</strong><br>Do a search for "in": </p>

        <p id="demo 38"></p>

        <script>

            let kkk1 = "The rain in SPAIN stays mainly in the plain";

            let op5 = kkk1.match("in");

            document.getElementById("demo 38").innerHTML = op5;

        </script>

        <p>Do a search for "ain": </p>

        <p id="demo 39"></p>

        <script>

            let kkk2 = "The rain in SPAIN stays mainly in the plain";

            let op6 = kkk2.match(/ain/);

            document.getElementById("demo 39").innerHTML = op6;

        </script>

        <p>Do a search for "ain": </p>

        <p id="demo 40"></p>

        <script>

            let kkk3 = "The rain in SPAIN stays mainly in the plain";

            let op7 = kkk3.match(/ain/g);

            document.getElementById("demo 40").innerHTML = op7;

        </script>

        <p>Do a search for "ain": </p>

        <p id="demo 41"></p>

        <script>

            let kkk4 = "The rain in SPAIN stays mainly in the plain";

            let op8 = kkk4.match(/ain/gi);

            document.getElementById("demo 41").innerHTML = op8;

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 17.padEnd(): </strong></p>

        <p><strong>The padEnd() method pads a string at the end. It pads the string with another string (multiple times) until it reaches a given length.</strong></p>

        <p id="demo 42"></p>

        <script>

            let LLL1 = "5";

            LLL2 = LLL1.padEnd(4, "0");

            document.getElementById("demo 42").innerHTML = LLL2;

        </script>

        <p id="demo 43"></p>

        <script>

            let LLL3 = "5";

            document.getElementById("demo 43").innerHTML = LLL3.padEnd(4, "x");

        </script>

        <p id="demo 44"></p>

        <script>

            let LLL4 = "5";

            let LLL5 = LLL4.toString();

            document.getElementById("demo 44").innerHTML = LLL5.padEnd(4, "x");

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 18.padStart(): </strong></p>

        <p><strong>The padStart() method pads a string from the start. It pads the string with another string (multiple times) until it reaches a given length.</strong></p>

        <p id="demo 45"></p>

        <script>

            let mm1 = 5;

            let mm2 = mm1.toString();

            document.getElementById("demo 45").innerHTML = mm2.padStart(4,0);

        </script>

        <p id="demo 46"></p>

        <script>

            let MM1 = "5";

            let MM2 = MM1.padStart(4, "0");

            document.getElementById("demo 46").innerHTML = MM2;

        </script>

        <p id="demo 47"></p>

        <script>

            let MM3 = "5";

            document.getElementById("demo 47").innerHTML = MM3.padStart(4, "x");

            document.write("<hr>");

        </script>

        <p style="color:mediumvioletred"><strong> 19.prototype(): </strong></p>

        <p><strong>The prototype property allows you to add new properties and methods to existing objects. Add a salary to all employees:</strong></p>

        <p id="demo 48"></p>

        <script>

            function employee(name, jobtittle, born)

            {

                this.name = name;

                this.jobtittle = jobtittle;

                this.born = born;

            }

            employee.prototype.salary = 2000;

            const emp = new employee("Deepa","Femina",2023);

            document.getElementById("demo 48").innerHTML = emp.salary;

        </script>

        <P id="demo 49"></P>

        <script>

            function person(first, last, age, eye)

            {

                this.firstName = first;

                this.lastNmae = last;

                this.eyeColor = eye;

            }

            const myFather = new person("Deepa", "bharathi", "brown");

            const myMother = new person("Femina", "bharathi", "grey");

            person.prototype.nationality = "English";

            document.getElementById("demo 49").innerHTML = "My Father is" + " " + myFather.nationality + "<br>" +"My Mother is" + " " + myMother.nationality;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 20.repeat(): </strong></p>

        <p><strong>repeat() returns a new string with a number of copies of a string: </strong></p>

        <p id="demo 50"></p>

        <script>

            let ooo1 = "Hello world!";

            let op11 = ooo1.repeat(3);

            document.getElementById("demo 50").innerHTML = op11;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 21.replace(): </strong></p>

        <p><strong>replace() searches a string for a value, and returns a new string with the specified value(s) replaced:</strong></p>

        <p id="demo 51">Mr Blue has a blue house and a blue car.</p>

        <script>

            let pp1 = document.getElementById("demo 51").innerHTML;

            let op12 = pp1.replace(/blue/gi, "red");

            document.getElementById("demo 51").innerHTML = op12;

        </script>

        <p id="demo 52">Mr Blue has a blue house and a blue car.</p>

        <script>

            let pp2 = document.getElementById("demo 52").innerHTML;

            let op13 = pp2.replace(/blue|house|car/gi, function (A)

            {

                return A.toUpperCase();

            });

            document.getElementById("demo 52").innerHTML = op13;

        </script>

        <p id="demo 53">Mr Blue has a blue house and a blue car.</p>

        <script>

            let pp3 = document.getElementById("demo 53").innerHTML;

            let op14 = pp3.replace(/blue/g, "red");

            document.getElementById("demo 53").innerHTML = op14;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 22.search(): </strong></p>

        <p><strong>search() searches a string for a value and returns the position of the first match:</strong></p>

        <p id="demo 54"></p>

        <script>

            let qq1 = "Mr. Blue has a blue house"

            let pos = qq1.search("Blue");

            document.getElementById("demo 54").innerHTML = pos;

        </script>

        <p id="demo 55"></p>

        <script>

            let qq2 = "Mr. Blue has a blue house"

            let pos1 = qq2.search("blue");

            document.getElementById("demo 55").innerHTML = pos1;

        </script>

        <p id="demo 56"></p>

        <script>

            let qq3 = "Mr. Blue has a blue house"

            let pos2 = qq3.search(/Blue/);

            document.getElementById("demo 56").innerHTML = pos2;

        </script>

        <p id="demo 57"></p>

        <script>

            let qq4 = "Mr. Blue has a blue house"

            let pos3 = qq4.search(/blue/);

            document.getElementById("demo 57").innerHTML = pos3;

        </script>

        <p id="demo 58"></p>

        <script>

            let qq5 = "Mr. Blue has a blue house"

            let pos4 = qq5.search(/blue/i);

            document.getElementById("demo 58").innerHTML = pos4;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 23.slice(): </strong></p>

        <p><strong> slice() extracts a part of a string and returns the extracted part:</strong></p>

        <p id="demo 59"></p>

        <script>

            let rr1 = "Hello world!";

            let op15 = rr1.slice(0, 5);

            document.getElementById("demo 59").innerHTML = op15;

        </script>

        <p id="demo 60"></p>

        <script>

            let rr2 = "Hello world!";

            let op16 = rr2.slice(3);

            document.getElementById("demo 60").innerHTML = op16;

        </script>

        <p id="demo 61"></p>

        <script>

            let rr3 = "Hello world!";

            let op17 = rr3.slice(3, 8);

            document.getElementById("demo 61").innerHTML = op17;

        </script>

        <p id="demo 62"></p>

        <script>

            let rr4 = "Hello world!";

            let op18 = rr4.slice(0, 1);

            document.getElementById("demo 62").innerHTML = op18;

        </script>

        <p id="demo 63"></p>

        <script>

            let rr5 = "Hello world!";

            let op19 = rr5.slice(-1);

            document.getElementById("demo 63").innerHTML = op19;

        </script>

        <p id="demo 64"></p>

        <script>

            let rr6 = "Hello world!";

            let op20 = rr6.slice(0);

            document.getElementById("demo 64").innerHTML = op20;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 24.split(): </strong></p>

        <p><strong> split() splits a string into an array of substrings, and returns the array:</strong></p>

        <p id="demo 65"></p>

        <script>

            let rr7 = "How are you doing today?";

            const op21 = rr7.split(" ");

            document.getElementById("demo 65").innerHTML = op21;

        </script>

        <p>The second word is:</p>

        <p id="demo 66"></p>

        <script>

            let rr8 = "How are you doing today?";

            const myArray = rr8.split("");

            document.getElementById("demo 66").innerHTML = myArray[1];

        </script>

        <p id="demo 67"></p>

        <script>

            let rr9 = "How are you doing today?";

            let op23 = rr9.split("");

            document.getElementById("demo 67").innerHTML = op23;

        </script>

        <p id="demo 68"></p>

        <script>

            let rr10 = "How are you doing today?";

            let op24 = rr10.split(" ", 4);

            document.getElementById("demo 68").innerHTML = op24;

        </script>

        <p id="demo 69"></p>

        <script>

            let rr11 = "How are you doing today?";

            let op25 = rr11.split("o");

            document.getElementById("demo 69").innerHTML = op25;

        </script>

        <p>The second character is: </p>

        <p id="demo 70"></p>

        <script>

            let rr12 = "How are you doing today?";

            const op26 = rr12.split("");

            document.getElementById("demo 70").innerHTML = op26[1];

        </script>

        <p id="demo 71"></p>

        <script>

            let rr13 = "How are you doing today?";

            let op27 = rr13.split();

            document.getElementById("demo 71").innerHTML = op27;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 25.startsWith(): </strong></p>

        <p><strong> startsWith() returns true if a string starts with a specified string:</strong></p>

        <p id="demo 72"></p>

        <script>

            let ss1 = "Hello world, welcome to the universe.";

            let op28 = ss1.startsWith("Hello");

            document.getElementById("demo 72").innerHTML = op28;

        </script>

        <p id="demo 73"></p>

        <script>

            let ss2 = "Hello world, welcome to the universe.";

            let op29 = ss2.startsWith("world", 7);

            document.getElementById("demo 73").innerHTML = op29;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 26.substr(): </strong></p>

        <p><strong> startsWith() returns true if a string starts with a specified string:</strong></p>

        <p id="demo 74"></p>

        <script>

            let ss3 = "Hello world";

            let op30 = ss3.substr(1, 4);

            document.getElementById("demo 74").innerHTML = op30;

        </script>

        <p id="demo 75"></p>

        <script>

            let ss4 = "Hello world";

            let op31 = ss4.substr(2);

            document.getElementById("demo 75").innerHTML = op31;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 27.substring(): </strong></p>

        <p><strong> substring() extracts a part of a string:</strong></p>

        <p id="demo 76"></p>

        <script>

            let ss5 = "Hello world";

            let op32 = ss5.substring(1, 4);

            document.getElementById("demo 76").innerHTML = op32;

        </script>

        <p id="demo 77"></p>

        <script>

            let ss6 = "Hello world";

            let op33 = ss6.substring(2);

            document.getElementById("demo 77").innerHTML = op33;

        </script>

        <p id="demo 78"></p>

        <script>

            let ss7 = "Hello world";

            let op34 = ss7.substring(4, 1);

            document.getElementById("demo 78").innerHTML = op34;

        </script>

        <p id="demo 79"></p>

        <script>

            let ss8 = "Hello world";

            let op35 = ss8.substring(-3);

            document.getElementById("demo 79").innerHTML = op35;

        </script>

        <p id="demo 80"></p>

        <script>

            let ss9 = "Hello world";

            let op36 = ss9.substring(0, 1);

            document.getElementById("demo 80").innerHTML = op36;

        </script>

        <p id="demo 81"></p>

        <script>

            let ss10 = "Hello world";

            let op37 = ss10.substring(ss10.length-1);

            document.getElementById("demo 81").innerHTML = op37;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 28.toLocaleLowerCase(): </strong></p>

        <p><strong> toLocaleLowerCase() converts a string to lowercase letters, using current locale:</strong></p>

        <p id="demo 82"></p>

        <script>

            let ss11 = "Hello world";

            let op38 = ss11.toLocaleLowerCase();

            document.getElementById("demo 82").innerHTML = op38;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 29.toLocaleUpperCase(): </strong></p>

        <p><strong> toLocaleUpperCase() converts a string to uppercase letters, using current locale :</strong></p>

        <p id="demo 83"></p>

        <script>

            let ss12 = "Hello world";

            let op39 = ss12.toLocaleUpperCase();

            document.getElementById("demo 83").innerHTML = op39;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 30.toLowerCase(): </strong></p>

        <p><strong> toLowerCase() converts a string to lowercase letters:</strong></p>

        <p id="demo 84"></p>

        <script>

            let ss13 = "Hello world";

            let op40 = ss13.toLowerCase();

            document.getElementById("demo 84").innerHTML = op40;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 31.toUpperCase(): </strong></p>

        <p><strong> toUpperCase() converts a string to uppercase letters:</strong></p>

        <p id="demo 85"></p>

        <script>

            let ss14 = "Hello world";

            let op41 = ss14.toUpperCase();

            document.getElementById("demo 85").innerHTML = op41;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 32.toString(): </strong></p>

        <p><strong>toString() returns the content of a string :</strong></p>

        <p id="demo 86"></p>

        <script>

            let ss15 = "Hello world";

            let op42 = ss15.toString();

            document.getElementById("demo 86").innerHTML = op42;

        </script>

        <p id="demo 87"></p>

        <script>

            let Deepu = "Hello world";

            let op43 = Deepu;

            document.getElementById("demo 87").innerHTML = op43;

        </script>

        <p id="demo 88"></p>

        <script>

            let ss16 = new String("Hello world");

            let op44 = ss16.toString();

            document.getElementById("demo 88").innerHTML = op44;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 33.trim(): </strong></p>

        <p><strong>trim() removes whitespace from both sides of a string:</strong></p>

        <pre><p id="demo 89"></p></pre>

        <pre></pre><p id="demo 90"></p></pre>

        <script>

            let ss17 = "        Hello world              ";

            let op45 = ss17.trim();

            document.getElementById("demo 89").innerHTML = ss17;

            document.getElementById("demo 90").innerHTML = op45;

        </script>

        <pre><p id="demo 91"></p></pre>

        <pre><p id="demo 92"></p></pre>

        <script>

            let ss18 = "       Hello world                 ";

            let op46 = ss18.replace(/^\s+|\s+$/gm,'');

            document.getElementById("demo 91").innerHTML = ss18;

            document.getElementById("demo 92").innerHTML = op46;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 34.trimEnd(): </strong></p>

        <p><strong> The trimEnd() Method:</strong></p>

        <p id="demo 93"></p>

        <script>

            let Deep = "          Hello world!          ";

            let Femi = Deep.trimEnd();

            document.getElementById("demo 93").innerHTML = "Length Deep = " + Deep.length + "<br>Length Femi = " + Femi.length;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 35..trimStart(): </strong></p>

        <p><strong> The trimStart() Method:</strong></p>

        <p id="demo 94"></p>

        <script>

            let Deep1 = "          Hello world!          ";

            let Femi1 = Deep1.trimStart();

            document.getElementById("demo 94").innerHTML = "Length Deep1 = " + Deep1.length + "<br>Length Femi1 = " + Femi1.length;

            document.write("<hr>");

        </script>

        <p style="color:#c71585"><strong> 36.valueOf(): </strong></p>

        <p><strong> valueOf() returns the primitive value of a string:</strong></p>

        <p id="demo 95"></p>

        <script>

            let v1 = "Hello world";

            let op101 = v1.valueOf();

            document.getElementById("demo 95").innerHTML = op101;

        </script>

        <p id="demo 96"></p>

        <script>

            let v2 = "Hello world";

            let op102 = v2;

            document.getElementById("demo 96").innerHTML = op102;

        </script>

        <p id="demo 97"></p>

        <script>

            let v3 = new String ("Hello world");

            let op103 = v3.valueOf();

            document.getElementById("demo 97").innerHTML = op103;

            document.write("<hr>");

        </script>

    </body>

</html>

**OUTPUT:**































