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<!DOCTYPE html>
<html>

<body>
  <p><mark style="background-color:plum">TOPIC:FUNCTIONS</mark></p>
  <script>
    function funcalpha(str) {
      return str.split('').sort().join('');
    }
    document.write(funalpha("webmaster"));
  </script><br><br>
  <p><mark style="background-color:plum">TOPIC:INDEXED COLLECTIONS</mark></p>
  <p><mark style="background-color:plum">FOR EACH ITERATOR</mark></p>
  <p id="demo"></p>
  <p><mark style="background-color:plum">FOR ITERATOR</mark></p>
  <p id="demo1"></p>
  <script>
    const array = [10, 20, 30, 40];
    array.push(50);
    document.write("The array after push operation is:" + "<br>");
    document.write(array + "<br>");
    document.write("The array after pop operation is:" + "<br>");
    array.pop();
    document.write(array);
    var emptytxt = "";
    var No = [23, 212, 9, 628, 22314];
    No.forEach(itrtFunction);

    document.getElementById("demo").innerHTML = emptytxt;

    function itrtFunction(value, index, array) {
      emptytxt = emptytxt + value + "<br>";
      var numArray = [41, 2, 14, 29, 49];
      var someOver50 = numArray.some(myFunction);

      document.getElementById("demo1").innerHTML
        = "Some values over 50 is " + someOver50;

      function myFunction(value, index, array) {
        return value > 50;
      }
    }
  </script><br><br>
  <p><mark style="background-color:plum">TOPIC:JSON</mark></p>
  <script>
    let text = '{"vehicle":[' + '{ "name": "Toyota Rav4", "engine": "2.5L",
"price": 32000 }]}';

    const obj = JSON.parse(text);
    document.write(obj.vehicle[0].name + " ");
  </script>

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        document.write(obj.vehicle[0].engine);
    </script>
<p><mark style="background-color:plum">TOPIC:ITERATORS AND GENERATORS</mark></p>
<script>
    const unfold = (fn, seed) => {
        let result = [],
            val = [null, seed];
        while ((val = fn(val[1]))) result.push(val[0]);
        return result;
    };
    var f = n => (n > 50 ? false : [-n, n + 10]);
    document.write(unfold(f, 10));
</script>
<script>
    //MODULES
    //export keyword
    let area = function (length, breadth) {
        let a = length * breadth;
        console.log('Area of the rectangle is ' + a + ' square unit');
    }
    let perimeter = function (length, breadth) {
        let p = 2 * (length + breadth);
        console.log('Perimeter of the rectangle is ' + p + ' unit');
    }
    module.exports = {
        area,
        perimeter
    }
</script>

    //import keyword
<script>
    const lib = require('./library');
    let length = 10;
    let breadth = 5;
    lib.area(length, breadth);
    lib.perimeter(length, breadth);
</script>
    //PROMISES
<script>
    const isPromiseLike = obj =>
        obj !== null &&
        (typeof obj === 'object' || typeof obj === 'function') &&
        typeof obj.then === 'function';

    console.log(isPromiseLike({
        then: function() {
            return '';
        }
    }));

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console.log(isPromiseLike(null));  
console.log(isPromiseLike({}));  
</script>  
</body>  
</html>
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