

```
<!DOCTYPE html>
<html>

<body>

  <p><mark style="background-color: plum">TOPIC:FUNCTIONS</mark></p>

  <script>

    function funcAlpha(st) {
      return str.split("").sort().join("");
    }

    document.write(funcAlpha("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(itrFunction);

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

    function itrFunction(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": "Toyota Raw4", "engine": "2.5L", "price": 32000 }];

    const obj = JSON.parse(text);
    document.write(obj.vehicle[0].name + " ");
    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 "";
      }
    )));
    console.log(isPromiseLike(null));
    console.log(isPromiseLike({}));
  </script>

</body>
</html>
```