**Exercises 🏋️‍♂️**

**Generating arrays**

* Generate an array that has all the numbers that are divisible by 3 from 1 to 1000
* Generate an array that has all the even numbers that are divisible by 4 from 1 to 1000
* Generate an array that has all the numbers that end with the digit 1 from 1 to 1000

**Clean arrays**

* Create a function that cleans an array of any values and leaves only STRINGS
* Create a function that cleans an array of any values and leaves only NUMBERS
* Create a function that cleans undefined, null, NaN, and "" and leaves all other values
* Test arrays:

let test = [true, false, 12, 13, 44, 2345, "Bob", "Jill", false, undefined, 1000, null, "Jack", "", "", 99, "Greg", undefined, NaN, 1, 22];

**Random color page**

* Create an HTML page
* On every refresh the page should pick a random color and change the background of the page
* The RGB values of the color should be shown in the center of the page on every restart

**Title Generator**

* Create 3 inputs:
  + Color
  + FontSize
  + Text
* Create a button for generating titles
* When the button is clicked generate a new h1 element with the color, font size, and text from the inputs

**Student constructor function**

* Create a constructor function for Student objects with:
  + Properties:
    - firstName
    - lastName
    - birthYear
    - academy
    - grades - array of numbers
  + Methods:
    - getAge() - returns age of student
    - getInfo() - returns "This is student firstName\* lastName\* from the academy academy\*!"
    - getGradesAverage() - returns the average of the student grades
* Create an array with 3 students

**List generator from an array**

* Create an array of 5 names
* Create an HTML page with:
  + A header
  + An empty unordered list
  + A button
* When the button is clicked it should fill in the empty unordered list with the names of the array

**List Generator dynamically from inputs**

* Create 3 inputs:
  + Color
  + FontSize
  + Items
* Create a button for generating unordered lists
* When the button is clicked generate a new ul element with the color, font size, and items from the inputs

Items should be added separated by, in the input

**Create a student registry page**

* Create an HTML page with student registry form with
  + First Name
  + Last Name
  + Age
  + Email
* Create a student generator function
* When the form is submitted, the inputs should be compiled into a new object from the generator function Student
* This student should be added to a list called "database"
* After submit the database should be printed in the console
* The input fields should be cleared

**Movies renting App**

* Create a movie renting app
* There should be an array of movie names
* There should be an input and a search button
* When the person enters a name of a movie it should search the array
* If the name exists it should show an H1 element that says: "The movie can be rented" in green text
* If the name does not exist it should show an H1 element that says: "The movie can't be rented" in red text
* The input should not be case sensitive ( it should find the movie regardless of capital or small letters )

**Reminder App**

* Create a reminder app
* There should be:
  + An input for entering the title
  + An input for entering priority
  + An input for color
  + A textarea for adding a description
  + A button for adding the reminder
  + A button for showing all reminders
* When the button for adding is clicked an object needs to be created with the properties from the inputs ( title, priority, color, and description )
* The object should then be added to an array of reminders
* When the button for showing all reminders is clicked it should show a table with title, priority, and description columns
* The title should be the color of the "color" property