ESMAD | TSIW | POO
Exercise Sheet nº 6
Arrays

Open Visual Studio Code and solve the following exercises in independent files with the names **exN.html** and **exN.js**, where **N** is the number of the exercise:

1. Array & Objects

a. Create the next array:

const games = [

  { name: 'Rick Dangerous', year: 1989 },

  { name: 'Goblins', year: 1992 },

  { name: 'Golden Axe', year: 1989 }

]

b. Show in the console information about the games:

Name: N / Year: A

…

(where N is the name of the game and A is the year the game was released)

c. Display the number of existing games on the console

d. Create a function called **addGame** that creates a new object (with user data from 2 text boxes and an "ADD GAME" button) and insert them into the array

e. Improve the previous paragraph so as not to let an existing game be inserted. If it already exists, an alert box should be displayed with the text: "GAME ALREADY EXISTING!"

f. Create a function called **averageLaunchDate** that calculates and returns the average year of game launch. Display the result in an alert box

g. Create a new button called "REMOVE GAME" which, when pressed, must remove the game whose name was entered in the text box. If the game does not exist, the message: "GAME INEXISTENT" must be displayed in an alert box

h. Create a function called **gamesFrom90** that returns the names of games released in the 90s. Display the result in an alert box

i. Create a function called **concatenateGameNames** that returns a string with all game names in lowercase and without spaces. Display the result in an alert box

2. Arrays & Objects

Make a web page that allows you to manage your favorite movies. The page must consist of a form at the top with the following fields:

- Film title (required)
- Genre (adventure, action, comedy, horror, romance, thriller, Other)
- Year (between 1900 and the current / required)
- Cover (link / required)
- Trailer (link)
- Buttons:
    - Submit
    - Reset

When adding a valid movie (note: you cannot add two movies with the same title) a table with the following columns must be fed:

- Title
- Genre
- Options (set of buttons)
    - SEE COVER (opens modal with the movie cover)
    - SEE TRAILER (opens modal with automatic trailer playback)
    - REMOVE (removes the movie from the object array)