

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

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(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
- 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:
 - o Submit
 - o 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)