JavaScript Worksheet

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JAVASCRIPT

This worksheet aims to be a first contact with JavaScript. The purpose of these exercises is to explore the language and test its integration with HTML content.

1) MY FIRST JAVASCRIPT PAGE

a) Create the folder "CAD/Worksheets/03-Javascript/ " and copy the pages and folders from last class. It is important to follow this structure to later use GIT. Copy to the folder all HTML files from the previous worksheet.

b) Inside the folder "CAD/Worksheets/03-Javascript /" create a folder "js" and a file "index.js".

c) As we are going to use "strict mode", use the following wrapper in your JavaScript file:

```javascript
var app = (function() {
 'use strict';


 // Your code goes here!


})();
```

d) Use the alert function to show a "Hello World" message
(https://developer.mozilla.org/en-US/docs/Web/API/Window/alert)

e) Check if the solution is HTML compliant.

f) Commit and push your changes to the remote repository.

2) HOME SWEET HOME

a) Reuse the Dashboard (index.html) from the Home Sweet Home page (from the previous class) to respond to clicks on the toggle buttons for lights and music.

b) Add adequate (meaningful) ids to the toggle buttons on your page.

c) Whenever the user clicks on the button, its value toggles between on and off.

d) Change the icon and color of the lamp or music to reflect the on or off state.

e) Implement a functionality to update the temperature values every 5 seconds, with a random value between 10 and 30 ºC.

f) Implement a functionality to update the date when the page is loaded, and to update the hours, minutes and seconds automatically, every second.