CHAPTER 1

PYTHON *to* JS

PART 1

WHAT IS JAVASCRIPT ?

EXPLORE

Team of 2

15 MIN

Open /**exercice1** and run the HTML

Q1 - What does the script is doing ?

Q2 - Remove the script –run – what's happen ?

Q3 - When we run the index.html ? before ? after ? on click ?

Q4 – Change the script to write THE BEST on the second paragraph

Q5 – Disable JavaScript on Chrome :
https://www.tutorialspoint.com/javascript/javascript_enabling.html

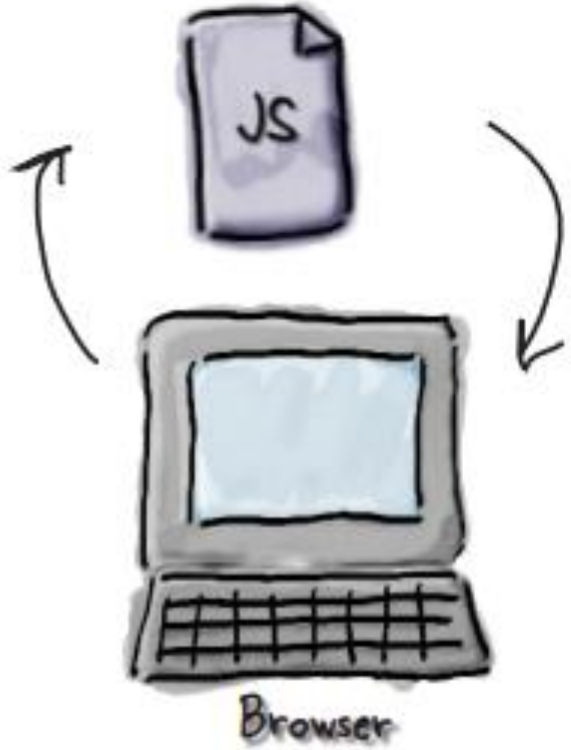
What 's happen ?

EXPLAIN

JS is the language understood by browsers

15 MIN

```
<html>
<head>
<title>Icecream</title>
<script>
 var x = 49;
</script>
<body>
<h1>Icecream Flavors</h1>
<h2><em>49 flavors</em></h2>
<p>All your favorite
flavors!</p>
</body>
</html>
```

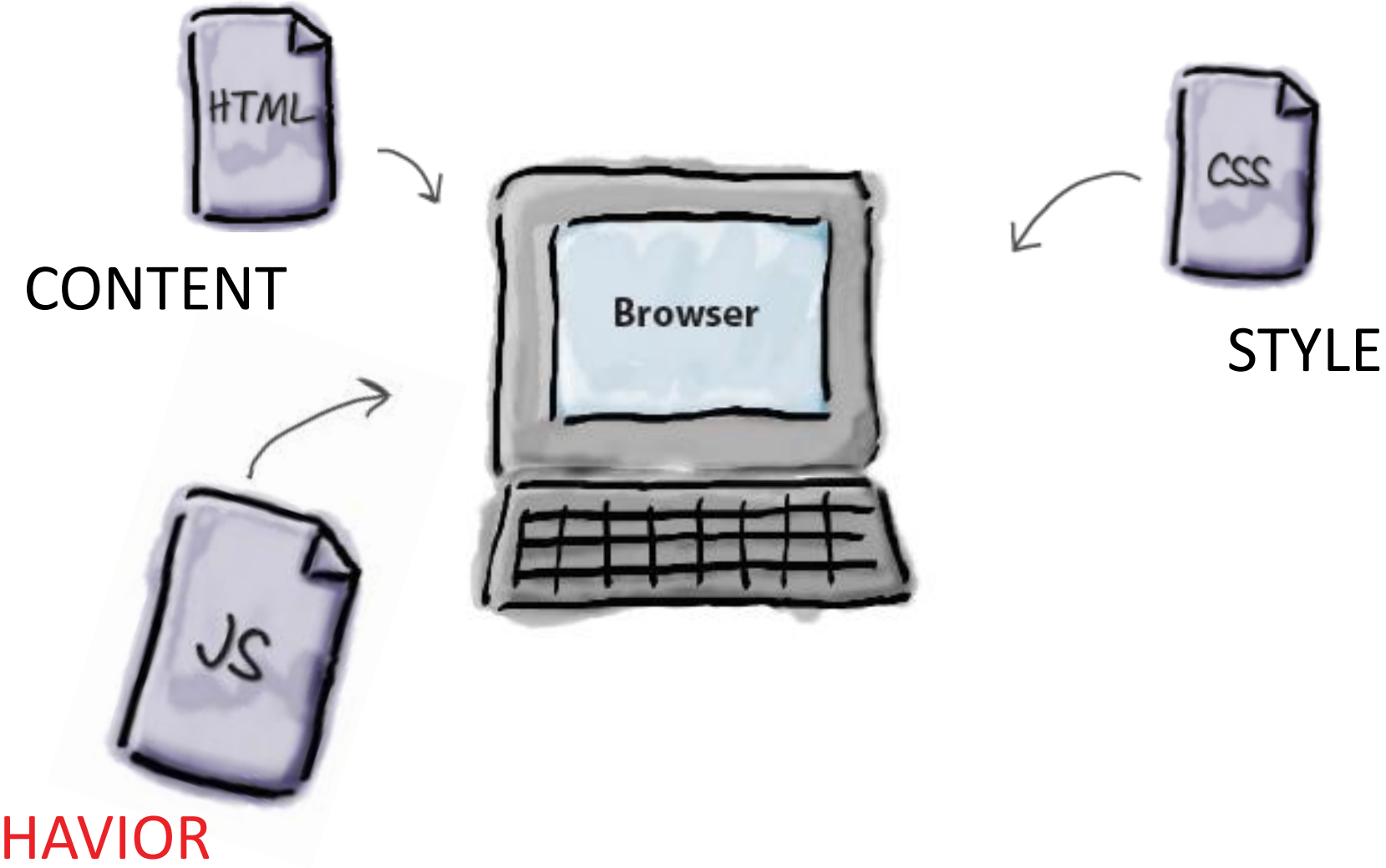


Writing 1

Loading 2

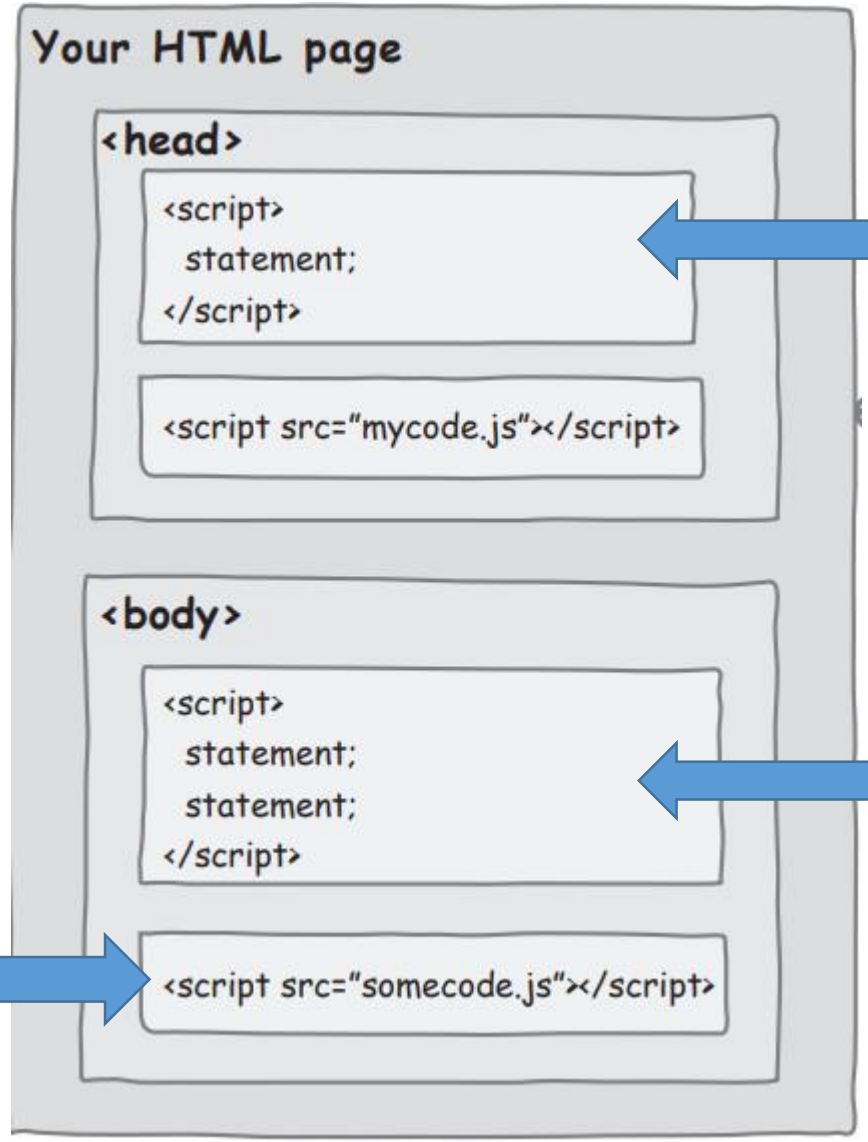
Executing 3

JS bring the behavior to your web application



EXPLAIN

Like CSS : many places to write your JS code



You can write JS
inside the <head>

Or write JS
inside the <body>

Or write JS
In external file
(most common)

EXPLORE

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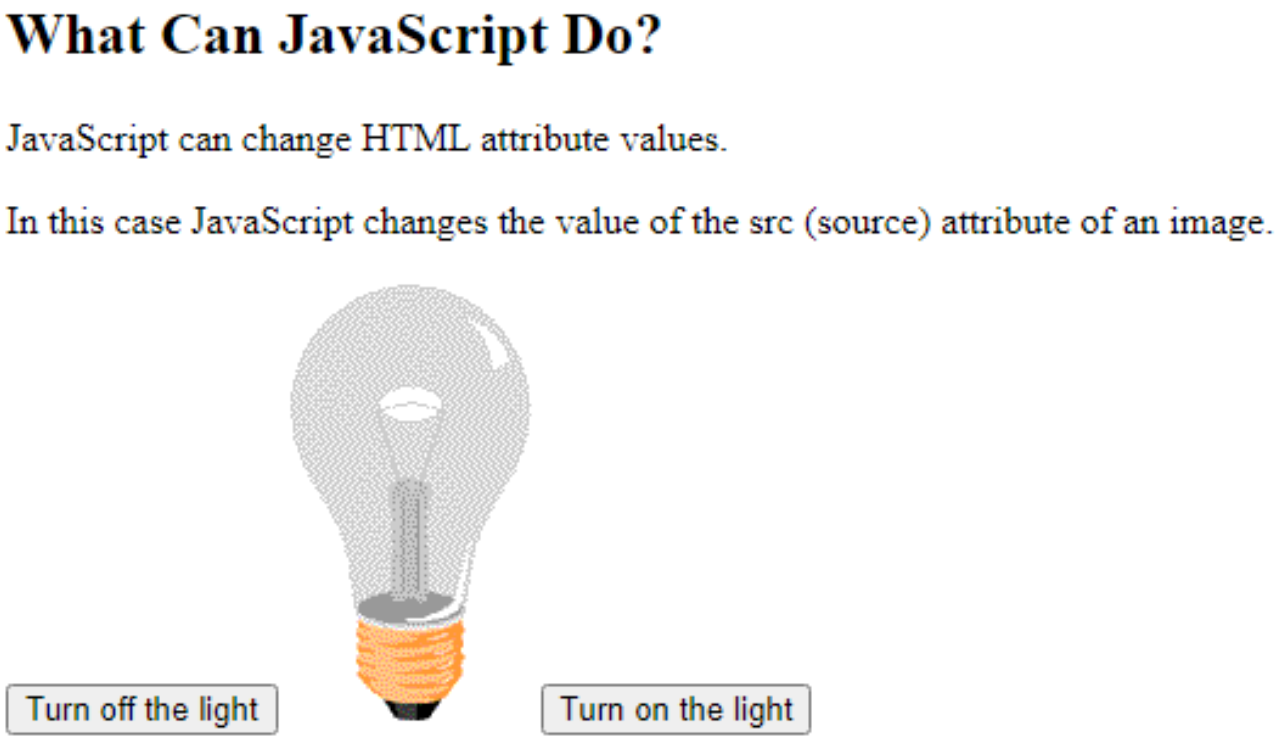
15 MIN

Open /**exercice2** and run the HTML



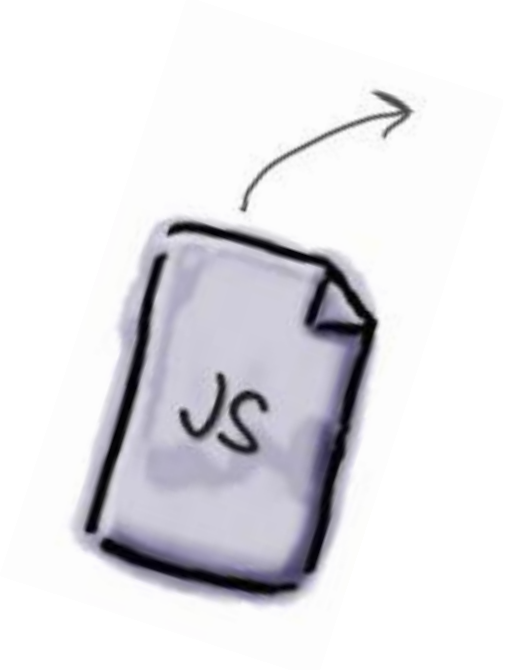
Q1 - Look at the code and find the way to turn on the light when we lick on button ON

Note: you have 2 images…

EXPLAIN

External JS advantages

- ✓ It separates HTML and code
- ✓ It makes HTML and JavaScript easier to read and maintain
- ✓ Cached JavaScript files can speed up page loads



yourFile**.js**

EXPLORE

Team of 2

15 MIN

Open /**exercice3**

Q1 - Read following page https://www.w3schools.com/js/js_output.asp

Understand how to :

- Write something in the console
- Write something in the HTML document
- Display an alert

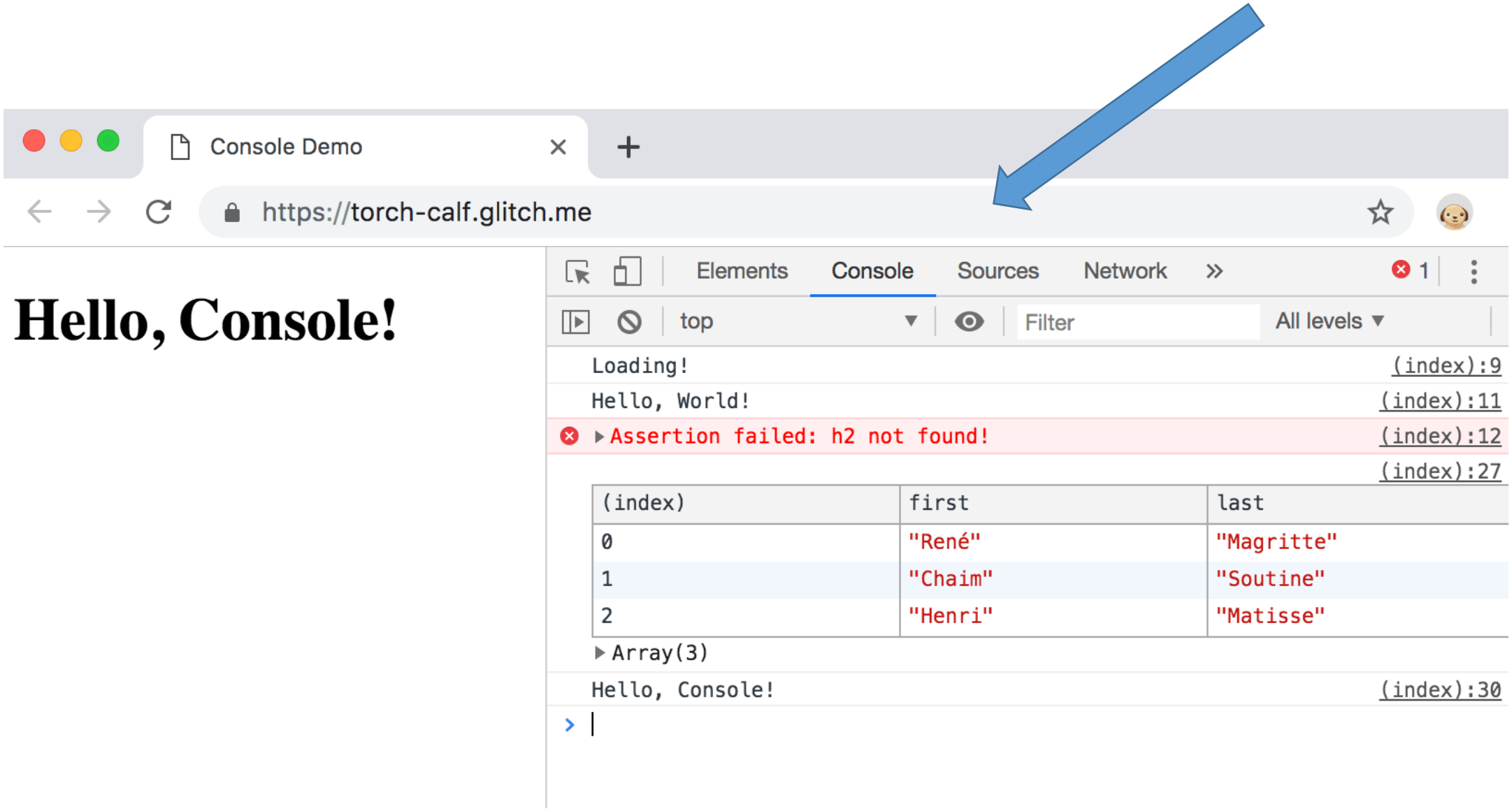
Q2 - Edit the script to :

- Write something in the console
- Write something in the HTML document
- Display an alert

EXPLAIN

CORRECTION / DEMO

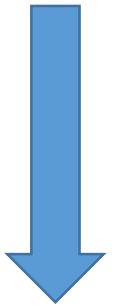
Can you access to the Console ?



EXPLAIN

15 MIN

How to DEBUG ?

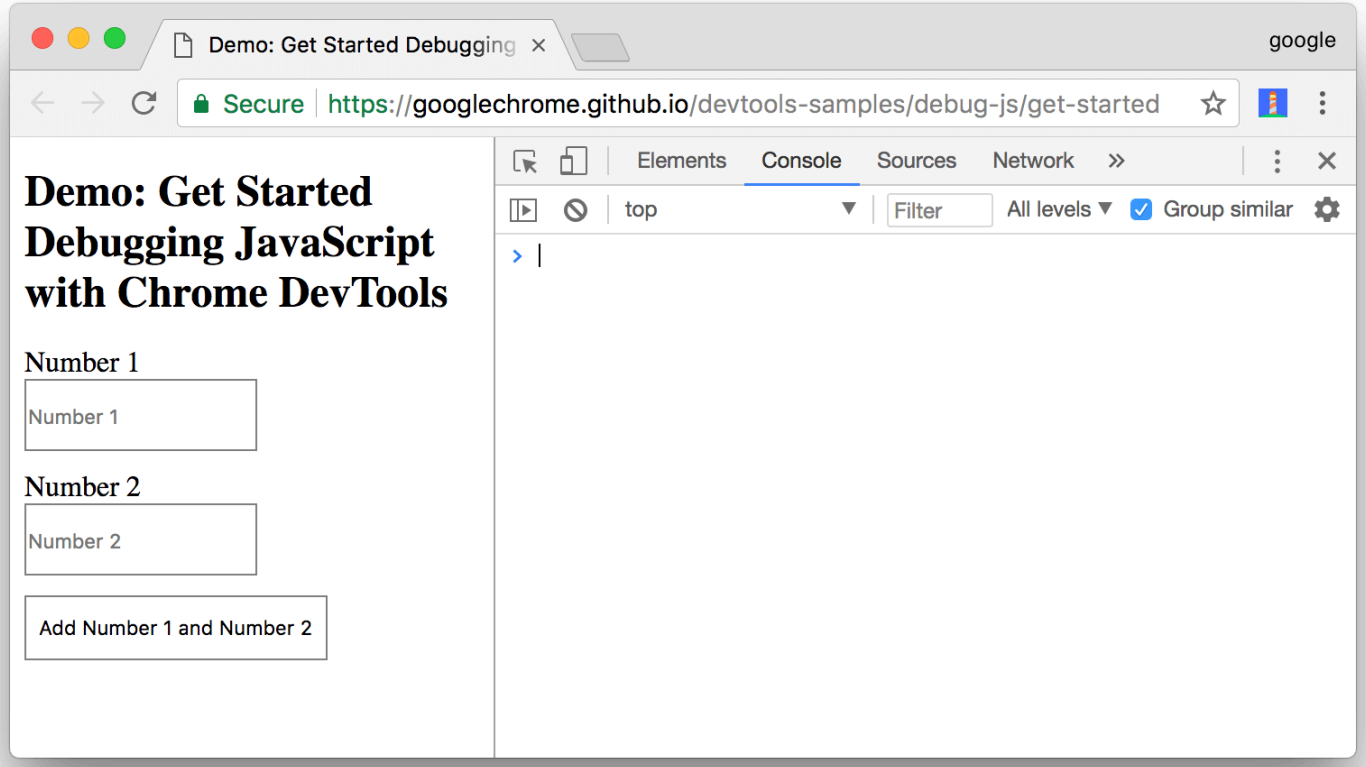


Using VS code

Using CHROME

More info : https://developers.google.com/web/tools/chrome-devtools/javascript

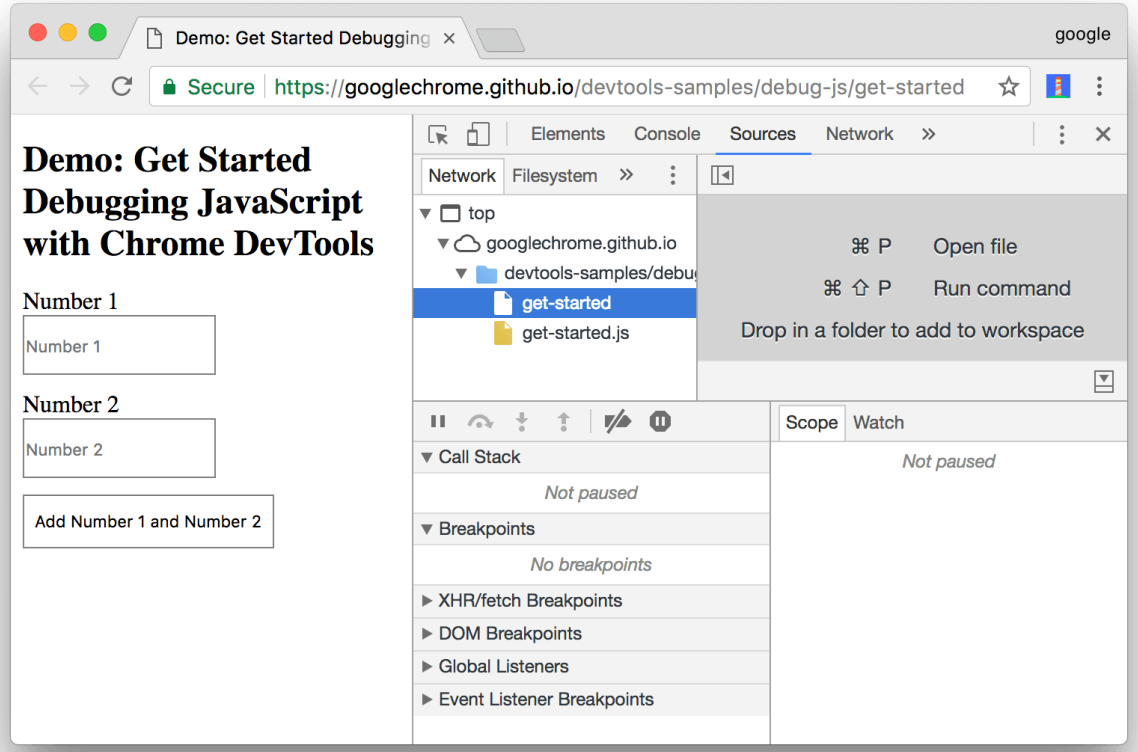
Open DevTools by pressing **Control+Shift+I**



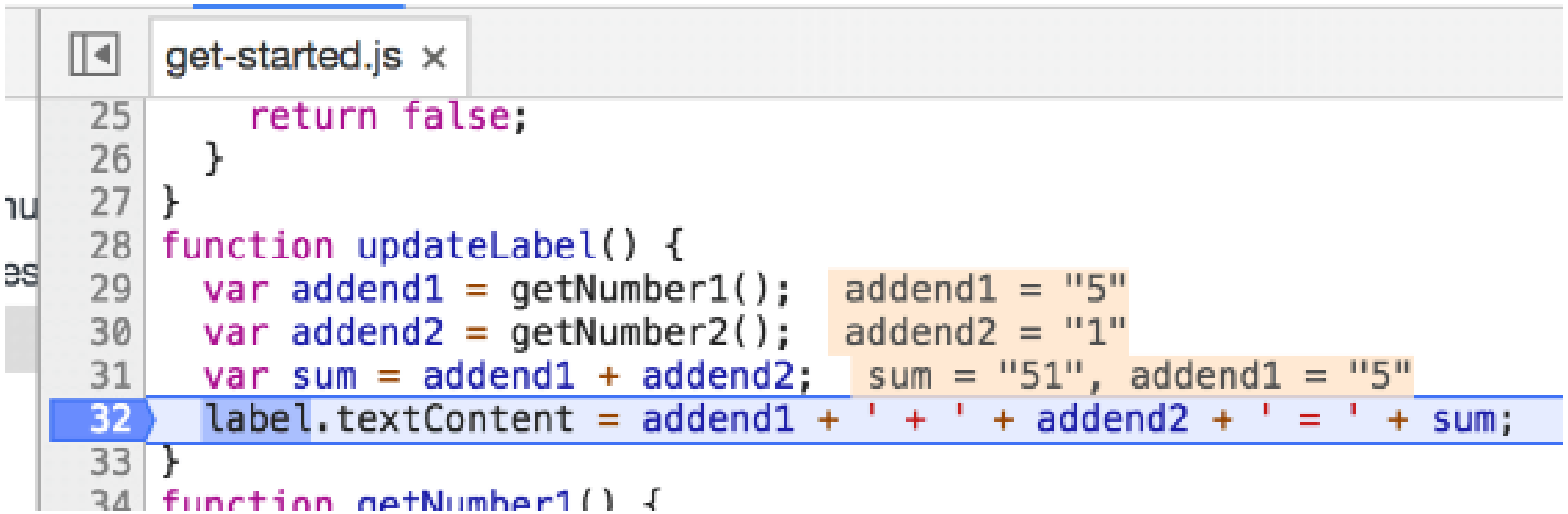
You can execute directly JS code in the chrome console !!!

```
> 5+15
< 20
> for (var i=0; i<10; i++) {
      console.log(i)
  }
  0                                                    VM200:2
  1                                                    VM200:2
  2                                                    VM200:2
  3                                                    VM200:2
  4                                                    VM200:2
  5                                                    VM200:2
  6                                                    VM200:2
  7                                                    VM200:2
  8                                                    VM200:2
  9                                                    VM200:2
< undefined
>
```

Click the **Sources** tab.

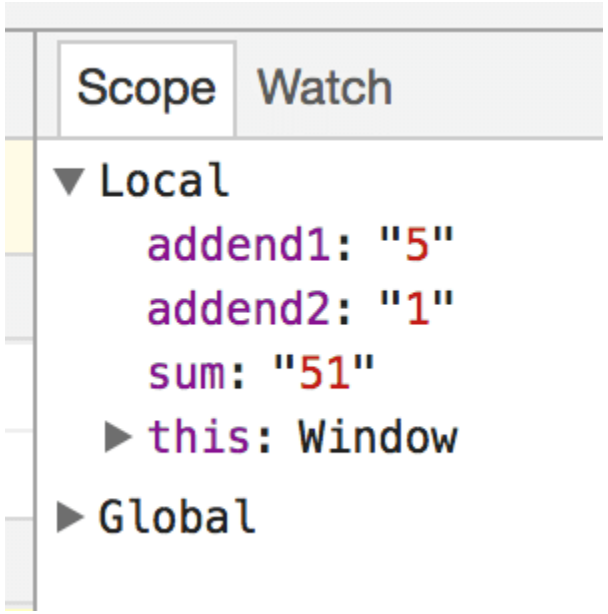


Add a **breakpoint** : click on the line you want the code to stop



Use the debug navigation to go step by step or exit the debug mode

Check the variable of your code



EXPLORE

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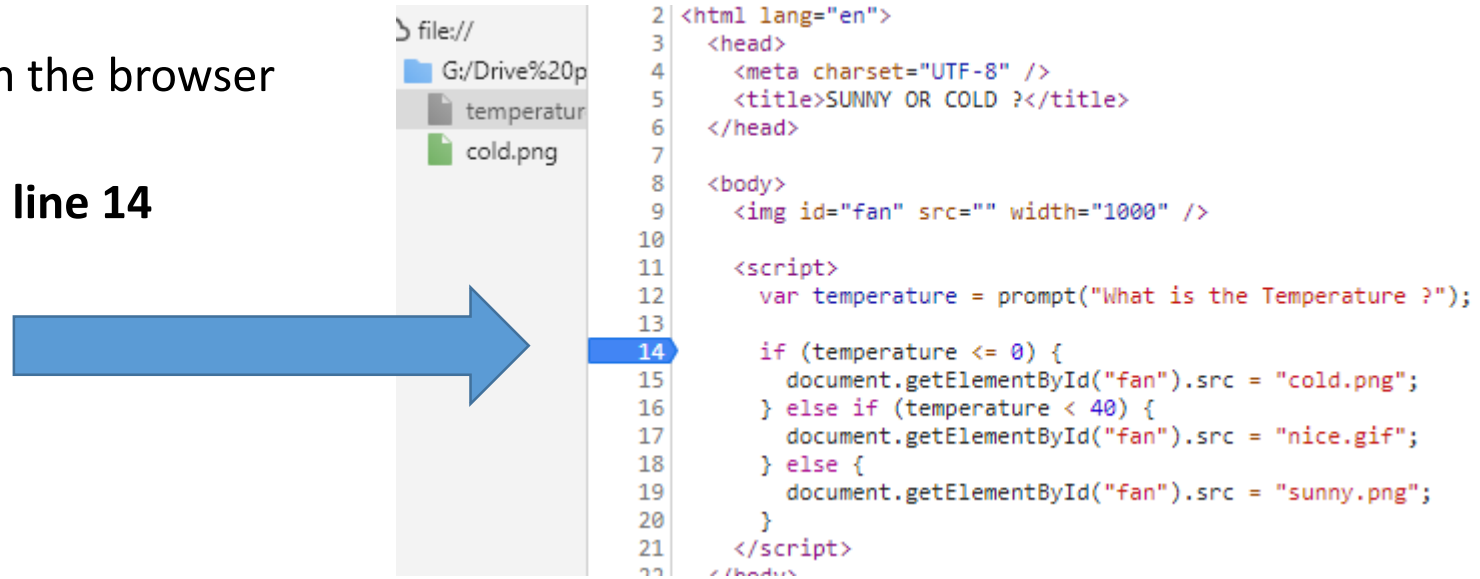
Open /**exercice4**

1 – Execute the HTML in the browser

2– Add a break point **at line 14**



3– Go step by step in the IF / ELSE IF / ELSE condition

Try this for different temperatures

Now you're ready to **code**