

PYTHON TO JAVASCRIPT!!! - PART 1

Instruction

- You need to complete the **XXXXXX** part with the JAVASCRIPT equivalent code
- You can work in team or by yourself –
 - Search on internet
 - or read the **1-Javascript Cheat Sheet.pdf**
 - <https://www.w3schools.com/js/default.asp>
- **IMPORTANT** : you need to test the code before writing it !!!

	PYTHON	JAVASCRIPT
COMMENTS	<pre># this is a comment in python</pre>	<pre>SINGLE LINE COMMENT // MULTI LINE COMMENT /*</pre>
LOOPS	<pre>for n in range(<NUMBER>) : for n in range (3) : print("hello") >hello >hello >hello for n in range(start, end) for n in range (2,5) : print(n) >2 >3 >4 for value in array : numbers = [5, 6, 7] for value in numbers : print(value) >5 >6 >7 while <BOOLEAN> x = int(input()) while x != 5: print ("try again") x = int(input())</pre>	<pre>for (let i = 0; i < 9; i++) { console.log("hello") } for (let i = 2; i < 5; i++) { console.log(i) } let number = [5,6,7] for (key in array) { console.log(number[key]) } let text = ""; let i = 0; while (i < 10) { text += "
The number is " + i; i++; }</pre>

CONDITION	<p>IF/ ELIF / ELSE :</p> <p>if <BOOLEAN> :</p> <p> < instructions></p> <p>elif <BOOLEAN> :</p> <p> < instructions></p> <p>else :</p> <p> < instructions></p> <p>if x<5 and y>6 :</p> <p> result = “monday”</p> <p>elif x> 10 :</p> <p> result = “friday”</p> <p>else:</p> <p> result = “sunday”</p>	<pre>let x = 5 let y = 6 let result = "" if (x < 5 && y >6){ result = "monday" }else if (x > 10){ result = "friday" }else{ result = "sunday" } console.log(result)</pre>
OUTPUT	<p>WRITE ON PYTHON CONSOLE</p> <p>print(<STRING>);</p> <p>print(“ronan the best”) :</p>	<p>WRITE ON BROWSER CONSOLE</p> <pre>console.log ("hello world")</pre> <p>WRITE ON HTML DOCUMENT</p> <pre>let create =document.createElement("create"); create.textContent = "THE BEST!"; document.body.appendChild(create) console.log(create)</pre> <p>DISPLAY AN ALERT</p> <pre>let display ="ronan the best" alert(display)</pre>
NUMBER OPERATORS	<p>INCREMENT A VARIABLE VALUE</p> <pre>x = 10 x += 1 print(x) > 11</pre> <p>MODULO</p> <pre>print(10 % 3) >1</pre> <p>POWER</p> <pre>n1 = 4 n2 = n1 ** 2 print(n2) >16</pre>	<p>INCREMENT A VARIABLE VALUE</p> <pre>let x=10 let y=1 console.log(x+y)</pre> <p>MODULO</p> <pre>let x=10 let y=1 console.log(x%y)</pre> <p>POWER</p> <pre>let x=10 let y=1 console.log(x*y)</pre>

STRING OPERATORS	<p>CONCATENATE STRINGS</p> <p><STRING> + <STRING></p> <pre>print("ronan" + "hello") >ronanhello</pre> <p>REMOVE THE LAST CHARACTERS:</p> <p><STRING>[:-1]</p> <pre>print("ronan"[:-2]) >ron</pre> <p>REMOVE THE FIRST CHARACTERS:</p> <p><STRING>[1:]</p> <pre>print("ronan"[1:]) >onan</pre> <p>BREAK A LINE</p> <p>text = "\n"</p> <pre>print("hi\nho") >hi >ho</pre> <p>GET NUMBER OF CHARCTERS</p> <p>count = len(<STRING>)</p> <pre>print(len("ronan")) >5</pre> <p>GET CHARACTER AT INDEX</p> <p>char = text[3]</p> <pre>print("abcd"[1]) >b</pre> <p>CONVERT A STRING TO A NUMBER</p> <p>number = int(<STRING>)</p> <pre>print(int("4") + int("5")) >9</pre>	<p>CONCATENATE STRINGS</p> <pre>let sumString="ronan"+"hello" console.log(sumString)</pre> <p>REMOVE THE LAST CHARACTERS:</p> <pre>let str = "hello"; str = str.substring(0, str.length - 1); console.log(str);</pre> <p>REMOVE THE FIRST CHARACTERS:</p> <pre>let str = 'Hello'; str = str.slice(1); console.log(str);</pre> <p>BREAK A LINE</p> <pre>let str = "Hello World!\nThis is my string"; console.log(str);</pre> <p>GET NUMBER OF CHARCTERS</p> <pre>let text = "Hello World!"; let newlength = text.length; console.log(newlength)</pre> <p>GET CHARACTER AT INDEX</p> <pre>let string = "Hello World!"; console.log(string.charAt(6));</pre> <p>let str1 = '5'; let str2 = '15'; let result = Number(str1) + Number(str2); console.log(result);</p>

CHECK IF A STRING IS A NUMBER
booleanVariable= **<STRING>.isNumeric()**

CHANGE A STRING TO UPPERCASE
text = **<STRING>.upper()**

```
print("hello".upper())  
>HELLO
```

CHANGE A STRING TO LOWER CASE
text = **<STRING>.lower()**

```
print("Hello".lower())  
>hello
```

```
function isInt(str) {  
  return !isNaN(str) &&  
  Number.isInteger(parseFloat(str));  
}
```

```
let myText = "hello world"  
console.log (myText.toUpperCase())
```

```
let myText = "HELLO WORLD"  
console.log (myText.toLowerCase())
```