

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 –
 - o Search on internet
 - o or read the **1-Javascript Cheat Sheet.pdf**
 - o <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 n = 0; n < 3; n++) { console.log("hello"); } for (let n = 2; n < 5; n++) { console.log(n); } let numbers = [5,6,7]; for (let value of numbers) { console.log(value); } let number = prompt("Enter Number"); while (number != 5) { console.log("try again") number = prompt("Enter Number") }</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; if (x < 5 && x > 6) { console.log("monday"); }else if (x > 10) { console.log("friday"); }else { console.log("sunday"); }</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("ronan the best");</pre> <p>WRITE ON HTML DOCUMENT</p> <pre>document.write("ronan the best")</pre> <p>DISPLAY AN ALERT</p> <pre>alert("ronan the best");</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; x += 1; console.log(x);</pre> <p>MODULO</p> <pre>console.log (10%3);</pre> <p>POWER</p> <pre>let n1 = 4; let n2 = n1 ** 2 console.log(n2)</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>CHECK IF A STRING IS A NUMBER</p>	<p>CONCATENATE STRINGS</p> <pre>console.log ("ronan" + "hello");</pre> <p>REMOVE THE LAST CHARACTERS:</p> <pre>const text = "ronan"; const newText = text.slice(0,-2); console.log(newText);</pre> <p>REMOVE THE FIRST CHARACTERS:</p> <pre>const text = "ronan"; const newText = text.slice(1); console.log(newText);</pre> <p>BREAK A LINE</p> <pre>console.log("hi\nho");</pre> <p>GET NUMBER OF CHARCTERS</p> <pre>let text = "ronan"; console.log(text.length);</pre> <p>GET CHARACTER AT INDEX</p> <pre>let text = "abcd"; console.log(text.charAt(1))</pre> <p>CONVERT A STRING TO A NUMBER</p> <pre>let str1 = "4"; let str2 = "5"; console.log(parseInt(str1)+parseInt(str2));</pre> <p>CHECK IF A STRING IS A NUMBER</p>

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
```

```
text = "Hello";  
console.log(isNaN(text));
```

CHANGE A STRING TO UPPERCASE

```
let text = "hello";  
console.log(text.toUpperCase());
```

CHANGE A STRING TO LOWER CASE

```
let text = "HELLO";  
console.log(text.toLowerCase());
```