

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**

	PYTHON	JAVASCRIPT
COMMENTS	<pre># this is a comment in python</pre>	<p>There are two ways to comment in javaScript there are:</p> <ul style="list-style-type: none">- Single line comment. //- Multi line comment. /** */
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(var i= 0; i<3; i++){console.log("hello")}; for(var i= 2; i < 5; i++){console.log("i")}; For(value in array){console.log(array[value])}; Var x = prompt("Enter Number:") While(x!=5){ Console.log("try again"); x = prompt("Enter Number:") };</pre>

CONDITION	<p>IF/ ELIF / ELSE :</p> <p>if <BOOLEAN> : < instructions> elif <BOOLEAN> : < instructions> else : < instructions></p> <p>if x<5 and y>6 : result = "monday"</p> <p>elif x> 10 : result = "friday"</p> <p>else: result = "sunday"</p>	<p>If(condition){ "do something" }else if(condition){ "do something" }else{ "do something" }</p>
OUTPUT	<p>WRITE ON PYTHON CONSOLE print(<STRING>);</p> <p>print("ronan the best") :</p>	<p>WRITE ON BROWSER CONSOLE Console.log("ronan the best");</p> <p>WRITE ON HTML DOCUMENT Document.write("hello");</p>
NUMBER OPERATORS	<p>INCREMENT A VARIABLE VALUE x = 10 x += 1 print(x) > 11</p> <p>MODULO print(10 % 3) >1</p> <p>POWER n1 = 4 n2 = n1 ** 2 print(n2) >16</p>	<p>INCREMENT A VARIABLE VALUE</p> <p>X = 10; X++; Console.log(x);</p> <p>MODULO</p> <p>Console.log(10%3);</p> <p>POWER</p> <p>Var n1 = 4; Var n2 = n1 * 2; Console.log(n2);</p>

STRING OPERATORS	<div>CONCATENATE STRINGS</div> <div><STRING> + <STRING></div> <div>print(“ronan” + “hello”)</div> <div>>ronanhello</div> <div>REMOVE THE LAST CHARACTERS:</div> <div><STRING> [: -1]</div> <div>print(“ronan”[: -2])</div> <div>>ron</div> <div>REMOVE THE FIRST CHARACTERS:</div> <div><STRING> [1:]</div> <div>print(“ronan”[1:])</div> <div>>onan</div> <div>BREAK A LINE</div> <div>text = “\n”</div> <div>print(len(“hi\nho”))</div> <div>>hi</div> <div>>ho</div> <div>GET NUMBER OF CHARCTERS</div> <div>count = len(<STRING>)</div> <div>print(len(“ronan”))</div> <div>>5</div> <div>GET CHARACTER AT INDEX</div> <div>char = text[3]</div> <div>print(“abcd”[1])</div> <div>>b</div> <div>CONVERT A STRING TO A NUMBER</div> <div>number = int(<STRING>)</div>	<div>CONCATENATE STRINGS</div> <div>Var text = “ronan” + “hello”;</div> <div>Console.log(text);</div> <div>REMOVE THE LAST CHARACTERS:</div> <div>XXXXX</div> <div>REMOVE THE FIRST CHARACTERS:</div> <div>Console.log(text.substring(1);</div> <div>BREAK A LINE</div> <div>document.write("Demo

Text!");</div> <div>GET NUMBER OF CHARCTERS</div> <div>var text = "hello world"; console.log(text.length);</div> <div>GET CHARACTER AT INDEX</div> <div>Var text = “hello”;</div> <div>Console.log(text[1]);</div>

```
print( int("4") + int("5"))  
>9
```

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
```

CHECK IF A STRING IS A NUMBER

var n = 5; console.log(isNaN(n));

CHANGE A STRING TO UPPERCASE

**var str = "Hello World!";
var res = str.toUpperCase();**

CHANGE A STRING TO LOWER CASE

**var str = "Hello World!";
var res = str.toLowerCase();**