# **PYTHON TO JAVASCRIPT!!! - PART 1**

Instruction

* You need to complete the **XXXXX** 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 !!!

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|  | **PYTHON** | **JAVASCRIPT** |
| **COMMENTS** | **# this is a comment in python** | SINGLE LINE COMMENT  //  MULTI LINE COMMENT  **/\* \*/** |
| **LOOPS** | **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()) | **for (let i = 0; i < 3 ; i++){console.log("Hello");}**  **for (let i = 2; i < 5 ; i++){console.log(i);}**  **var array = [5,6,7]**  **for(var i = 0; i < array.length ; i++){**  **console.log(array[i])**  **}**  **let number=window.promt()**  **While (number != 5){**  **Console.log(“Try again”);**  **Number ++;**  **}** |
| **CONDITION** | IF/ ELIF / ELSE :  **if <BOOLEAN>** :  < instructions>  **elif <BOOLEAN>** :  < instructions>  **else** :  < instructions>  if x<5 and y>6 :  result = “monday”  elif x> 10 :  result = “friday”  else:  result = “sunday” | **if x <5 && y >6; {**  **console.log("monday");**  **}**  **elif x > 10;{**  **console.log("firday");**  **}**  **else{**  **console.log("sunday");**  **}** |
| **OUTPUT** | WRITE ON PYTHON CONSOLE  **print**( **<STRING>** );  print(“ronan the best”) : | WRITE ON BROWSER CONSOLE  **console.log(“ronan the best”)**  WRITE ON HTML DOCUMENT  **document.write(“ronan the best”)**  DISPLAY AN ALERT  alert(“ronan the best”) |
| **NUMBER**  **OPERATORS** | INCREMENT A VARIABLE VALUE  x = 10  x += 1  print(x)  > 11  MODULO  print(10 % 3)  >1  POWER  n1 = 4  n2 = n1 \*\* 2  print(n2)  >16 | INCREMENT A VARIABLE VALUE  **let n = 10; n +=1;{}**  MODULO  **let n = 10; n % 3;{}**  POWER  **var n1 = 4; n2 = n1 \*\* 2;{}** |
| **STRING**  **OPERATORS** | CONCATENATE STRINGS  **<STRING> + <STRING>**  print(“ronan” + “hello”)  >ronanhello  REMOVE THE LAST CHARACTERS:  **<STRING> [: -1 ]**  print(“ronan”[:-2] )  >ron  REMOVE THE FIRST CHARACTERS:  **<STRING> [1: ]**  print(“ronan”[1:] )  >onan  BREAK A LINE  text = **“\n”**  print( len(“hi**\**nho”) )  >hi  >ho  GET NUMBER OF CHARCTERS  count = **len**(<**STRING>)**  print( len(“ronan”) )  >5  GET CHARACTER AT INDEX  char = text[3]  print( “abcd”[1] )  >b  CONVERT A STRING TO A NUMBER  number = **int**(<**STRING>)**  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 | CONCATENATE STRINGS  **console.log(“ronan”+”hello”);**  REMOVE THE LAST CHARACTERS:  **console.log(“ronan”.substring(0,3));**  REMOVE THE FIRST CHARACTERS:  **console.log(“ronan”.substring(1));**  BREAK A LINE  **mytext = “hi\nho”**  **console.log(mytext);**  GET NUMBER OF CHARCTERS  count = “ronan”  console.log(count.lenght);  GET CHARACTER AT INDEX  **console.log(parseInt(“4”) +(parseInt(5”));**  **console.log(!isNaN(“10”));**  var str = "hello"; var res = str.toUpperCase();  var str = "Hello"; var res = str.toLowerCase(); |