# **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  **//This is a comment in JavaScript**  MULTI LINE COMMENT  **/\*This multi line comment**  **int JavaScript \*/** |
| **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)**  **const numbers = [5,6,7]**  **for (let value of numbers))**  **Console.log(index)**  **let X = int(input())**  **while ( x ! 5 )**  **Console.log(“try again”)**  **X = int(input())** |
| **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 )**  **result = “Monday”**  **else if ( x>= 10)**  **result = “Friday”**  **else**  **result = “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  **console.log(“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 x = 10**  **X += 1**  **console.log(“x”)**  MODULO  **console.log( 10 % 3)**  POWER  **let n1 = 4**  **n2 = n1 \* 2**  **console.log(“n2”)** |
| **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( “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”.slice(0,-1))**  REMOVE THE FIRST CHARACTERS:  **Console.log(“ronan”.slice(1,5))**  BREAK A LINE  **Console.log(“hi\nho”)**  GET NUMBER OF CHARCTERS  **Console.log(“string”.length)**  GET CHARACTER AT INDEX  **Console.log(“abcd”[1])**  **Console.log(+”4” , “5”)**  **Booleanvariable = “44”.isNaN()**  **Console.log(“hello”.toUpercase())**  **Console.log(“hello”.toLowercase())** |