# **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**

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|  | **PYTHON** | **JAVASCRIPT** |
| **COMMENTS** | **# this is a comment in python** | **There are two ways to comment in javaScript there are:**   * **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(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 = promt(“Enter Number:”)**  **While(x!=5){**  **Console.log(“try again”);**  **x = promt(“Enter 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(condition){**  **“do something”**  **}else if(condition){**  **“do something”**  **}else{**  **“do something”**  **}** |
| **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(“hello”);** |
| **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  **X = 10;**  **X++;**  **Console.log(x);**  MODULO  **Console.log(10%3);**  POWER  **Var n1 = 4;**  **Var 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( 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  **Var text = “ronan” + “hello”;**  **Console.log(text);**  REMOVE THE LAST CHARACTERS:  **XXXXX**  REMOVE THE FIRST CHARACTERS:  **Console.log(text.substring(1);**  BREAK A LINE  **document.write("Demo<br><br>Text!");**  GET NUMBER OF CHARCTERS  **var text = "hello world"; console.log(text.length);**  GET CHARACTER AT INDEX  **Var text = “hello”;**  **Console.log(text[1]);**  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();** |