# **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  **XXXXX**  **-single line comment**  **//**  MULTI LINE COMMENT  **XXXXX**  **/\*\***  **/\*** |
| **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()) | **XXXXX**  for (let i=0; i<3; i++){      console.log("hello")  }  **XXXXX**  for (let i=2; i<5; i++){      console.log(i)  }  **XXXXX**  let numbers = [5,6,7]  for (let number of numbers){      console.log(number)  }  **XXXXX**  let x = prompt("")  while (x !=5 ){      console.log("try again");      x =prompt("")  } |
| **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” | **XXXXX**  let x=8  let y =10  if (x<5 && y>6){      console.log("Monday")  }else if (x<10){      console.log("Friday")  }else{      console.log("Sunday")  } |
| **OUTPUT** | WRITE ON PYTHON CONSOLE  **print**( **<STRING>** );  print(“ronan the best”) : | WRITE ON BROWSER CONSOLE  **XXXXX**  console.log("ronan the best");  WRITE ON HTML DOCUMENT  **XXXXX**  DISPLAY AN ALERT  **XXXXX** |
| **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  **XXXXX**  let x = 10  x += 1  console.log(x)  MODULO  **XXXXX**  console.log(10%3)  POWER  **XXXXX**  let n1 =4  let 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()**  var n = 5; console.log(isNaN(n));  CHANGE A STRING TO UPPERCASE  text = <**STRING>.upper()**  print(“hello”.upper())  >HELLO  var str = "Hello";  var res = str.toUpperCase();  CHANGE A STRING TO LOWER CASE  text = <**STRING>.lower()**  print(“HellO”.lower())  >hello  var str = "Hello World!";  var res = str.toLowerCase(); | CONCATENATE STRINGS  **XXXXX**  console.log("ronan" + "hello")  REMOVE THE LAST CHARACTERS:  **XXXXX**  REMOVE THE FIRST CHARACTERS:  **XXXXX**  console.log(Text.substring(1));  BREAK A LINE  **XXXXX**  document.write("demo<br><br>Text!");  GET NUMBER OF CHARCTERS  **XXXXX**  var text = "hello world";  console.log(text.length);  GET CHARACTER AT INDEX  **XXXXX**  var text = "hello";  console.log(text[1]); |