# **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**  **//**  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 n = 0; n < 3; n++) {  console.log("hello");  }  XXXXX  for (let n = 2; i < 5; i++) {  console.log(n);  }  XXXXX  numbers = [5,6,7];  for (let value of numbers) {  console.log(value);  }  XXXXX  let x = parseInt (prompt ("Enter a number:"));  while (x! == 5) {  console.log ("try again");  x = parseInt (prompt ("Enter a 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” | **XXXXX**  let result;  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  **XXXXX**  console.log ("ronan the best");  WRITE ON HTML DOCUMENT  **XXXXX**  <!DOCTYPE html>  <html>  <head>  <title>Displaying Text</title>  </head>  <body>  <script>  document.write("ronan the best");  </script>  </body>  </html>  DISPLAY AN ALERT  **XXXXX**  <!DOCTYPE html>  <html>  <head>  <title>Displaying Alert</title>  </head>  <body>  <script>  alert("ronan the best");  </script>  </body>  </html> |
| **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()**  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  **XXXXX**  console.log ("ronan" + "hello");  REMOVE THE LAST CHARACTERS:  **XXXXX**  console.log("ronan".slice(0, -2));  REMOVE THE FIRST CHARACTERS:  **XXXXX**  print("ronan"[1:])  BREAK A LINE  **XXXXX**  print("hi\nho")  GET NUMBER OF CHARCTERS  **XXXXX**  print(len("ronan"))  GET CHARACTER AT INDEX  **XXXXX**  print("abcd"[1]) |