# **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 n = 0; n < 3; n++) {**  **console.log("hello");**  **}**  **for (let n = 2; n < 5; n++) {**  **console.log(n);**  **}**  **const numbers = [5, 6, 7];**  **for (const value of numbers) {**  **console.log(value);**  **}**  **let x = parseInt(prompt());**  **while (x !== 5) {**  **console.log("try again");**  **x = parseInt(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” | x=2;  y=9;  let result;  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  console.log("Ronan the best");  WRITE ON HTML DOCUMENT   <h2></h2>      <script>          document.querySelector('h2').innerHTML="Ronan the best";      </script>  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  **XXXXX** |
| **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:  let text="ronan"  console.log("ronan".slice(0, -2));  REMOVE THE FIRST CHARACTERS:  let text="ronan"  console.log("ronan".slice( 1));  BREAK A LINE  text="\n"  console.log("hi\nho");  GET NUMBER OF CHARCTERS  let str = "ronan";  let count = str.length;  console.log(count);  GET CHARACTER AT INDEX  let text = "abcd";  let char = text[1];  console.log(char);  let number1 = parseInt("4");  let number2 = parseInt("5");  let result = number1 + number2;  console.log(result);  let string="1234"  let isNumeric= !isNaN(string);  console.log(isNumeric);  let text = "hello";  let uppercaseText = text.toUpperCase();  console.log(uppercaseText);  let text = "HELLO";  let lowercase = text.toLowerCase();  console.log(lowercase); |