# **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 i = 0; i < 9; i++) {  console.log("hello")  }  for (let i = 2; i < 5; i++) {  console.log(i)  }  let number = [5,6,7]  for (key in array) {  console.log(number[key])  }  let text = "";  let i = 0;  while (i < 10) {  text += "<br>The number is " + i;  i++;  } |
| **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” | let x = 5  let y = 6  let result = ""  if (x < 5 && y >6){  result = "monday"  }else if (x > 10){  result = "friday"  }else{  result = "sunday"  }  console.log(result) |
| **OUTPUT** | WRITE ON PYTHON CONSOLE  **print**( **<STRING>** );  print(“ronan the best”) : | WRITE ON BROWSER CONSOLE  console.log ("hello world")  WRITE ON HTML DOCUMENT  let create =document.createElement("create");  create.textContent = "THE BEST!";  document.body.appendChild(create)  console.log(create)  DISPLAY AN ALERT  let display ="ronan the best"  alert(display) |
| **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  let y=1  console.log(x+y)  MODULO  let x=10  let y=1  console.log(x%y)  POWER  let x=10  let y=1  console.log(x\*y) |
| **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  let sumString="ronan"+"hello"  console.log(sumString)  REMOVE THE LAST CHARACTERS:  let str = "hello";  str = str.substring(0, str.length - 1);  console.log(str);  REMOVE THE FIRST CHARACTERS:  let str = 'Hello';  str = str.slice(1);  console.log(str);  BREAK A LINE  let str = "Hello World!\nThis is my string";  console.log(str);  GET NUMBER OF CHARCTERS  let text = "Hello World!";  let newlength = text.length;  console.log(newlength)  GET CHARACTER AT INDEX  let string = "Hello World!";  console.log( string.charAt(6) );  let str1 = '5';  let str2 = '15';  let result = Number(str1) + Number(str2);  console.log(result);  function isInt(str) {  return !isNaN(str) && Number.isInteger(parseFloat(str));  }  let myText = "hello world"  console.log (myText. toUpperCase())  let myText = "HELLO WORLD"  console.log (myText.toLowerCase()) |