# **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()) | for (let i = 0; i < 3; i++) {              console.log("Hello");          }     for (let i=2; i<5;i++){             console.log(i);         }   let numbers = [5, 6, 7]      for (let value of numbers) {          console.log(value)      }  let x = prompt("chose your choice: ")      while (x==5);          console.log("Try again!");          x = prompt("chose your choice: ")      } |
| **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 result=""      for (let x=0;y=0;x+=1,y++){          if (x<5 && y>6) {              result="Moday"          }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  **XXXXX**  WRITE ON HTML DOCUMENT   window.alert("Ronan the best")  DISPLAY AN 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  var x=10          x+=1          console.log(x)  MODULO  var x=10          console.log(x%3)  POWER  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  console.log("ronana" + "hello")  REMOVE THE LAST CHARACTERS:  let text= "ronana"          text=text.substring(0,text.length-3)          console.log(text)      </script>  REMOVE THE FIRST CHARACTERS:  let text = "ronana"          text = text.substring(1, text.length-1)          console.log(text)  BREAK A LINE  console.log("hi\nho")  GET NUMBER OF CHARCTERS  console.log("Ronan".length)  GET CHARACTER AT INDEX  console.log("abcd"[1])  console.log(parseInt("4")+(parseInt("5")))  console.log("hello".toUpperCase())  console.log("HELLO".toLowerCase()) |