# **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  // This is a comment  MULTI LINE COMMENT  /\* The code below will print the words Hello World  to the screen, and it is amazing \*/ |
| **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 number = [5 ,6 ,7]  for(let value of number){      console.log(value);  }    **while <BOOLEAN>**  let x = prompt("Enter number:");  while(x != 5){      console.log('try again');      x = prompt("Enter :");  } |
| **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 = 4  let y = 8  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('the best team');  WRITE ON HTML DOCUMENT  document.write('the best team');  DISPLAY AN ALERT  alert('the best team'); |
| **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  let n1 = 4  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( len(“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('hello' + 'ronan');  REMOVE THE LAST CHARACTERS:  console.log('hello'.substr(0,3));  REMOVE THE FIRST CHARACTERS:  console.log('hello'.substr(-4));  BREAK A LINE  console.log('hello' + '\n' + 'ronan');  GET NUMBER OF CHARCTERS  console.log('helloronan'.length);  GET CHARACTER AT INDEX  console.log('abcd'.substr(1,1));  number = **int**(<**STRING>)**  console.log(parseInt('5') + parseInt('4'))  CHANGE A STRING TO UPPERCASE  console.log('Hello'.toUpperCase());  CHANGE A STRING TO LOWER CASE  console.log('Hello'.toLowerCase()); |