# **PYTHON TO JAVASCRIPT!!! - PART 2**

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 JAVASCRPT MANUAL pdf

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|  | **PYTHON** | **JAVASCRIPT** |
| **BOOLEAN**  **OPERATORS** | **IS EQUAL, IS GREATER**  x = 5  y = 5  print (x == y)  >True  **AND / OR / NOT**  x = 5  y = 5  print (not (x == y and ( x>5 or y<10) ))  >False | IS EQUAL, IS GREATER  **Console.log(x==y);**  AND / OR / NOT  **Console.log(!(x == y && (x >5 || y <10)));** |
| **TYPES** | CONVERT A STRING TO INTEGER  **int**(<**STRING>)**  n = ‘5’  print (int(n) + int(n))  >10  CONVERT AN INTEGER TO STRING  **str**(<**INTEGER>)**  n = 5  print (str(n) + str(n))  >55 | CONVERT A STRING TO INTEGER  **Console.log(parseInt(n) + parseInt(n));**  CONVERT AN INTEGER TO STRING  **Console.log(n.toString() + n.toString());** |
| **FUNCTION** | DEFINE A FUNCTION  def sum(n1, n2):  total = n1 + n2  return total  print(sum(100,200)) -> 300 | DEFINE A FUNCTION  **function sum(n1, n2){**  **let total = n1 + n2;**  **return total;**  **}** |
| **DATA**  **STRUCTURES** | **ARRAY**  # Create empty array  array = []  fruits = [“apple”, “banana”]  # Create array with values  array = [12, 13, 15, 16]  # Access using index  value = array[2]  # Insert value at index  array.insert(1, 20)  # Insert value at the end  array.append(20)  # Remove using index  array.pop(2)  # Get a sub array  subarray = array[2:25]  **ARRAY 2D**  # Create array2D with values  array2D = [ [12, 13, 15, 16], [4, 5, 6, 7]]  # Access using index  value = array2D[2][0]  **DICTIONARY**  # Create empty dictionary  dic = {}  # Create array with values  dic = { **key1**:**value1**, **key2**:**value2** … }  # Access using **key**  value = dic[**key1**]  # Add value for a new key  dic[**key3**] = **value3**  # Update value from existing key  dic[**key2**] = **value2New**  # Remove using key  dic. pop(**key2**) | **ARRAY**  # Create empty array  **let array = [];**  **let fruits = []**  # Create array with values  **let numbers = [1,2,3,4,5,6];**  # Access using index  **Let value = array[2];**  # Insert value at index  **XXXXX**  # Insert value at the end  **numbrs.push(20)**  # Remove using index  **XXXXX**  # Get a sub array  **XXXXX**  **ARRAY 2D**  # Create array2D with values  **Let array2D = [[1,2,3,4,3],[1,2,3,4,5]];**  # Access using index  **Let value = array[2][0];**  **DICTIONARY**  # Create empty dictionary  **Let dic = {}**  # Create array with values  **Let dic = {name:”him”, age:20};**  # Access using **key**  **Let name = dic[“name”];**  # Add value for a new key  **Dic.push({keyName:value});**  # Update value from existing key  **dic.keyName = newValue;**  # Remove using key  **Delete dic.keyName** |