PYTHON TO JAVASCRIPT!!! - PART 2

<u>Instruction</u>

- 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 !!!

	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
		XXXXXXXXXXXX
		
		AND / OR / NOT
		XXXXXXXXX

TYPES	CONVERT A STRING TO INTEGER
	int(<STRING>)
	
	`n = '5'`
	`print (int(n) + int(n))`
	`>10`
	
	CONVERT A INTEGER TO STRING
	str(<INTEGER>)
	
	`n = 5`
	`print (str(n) + str(n))`
	`>55`
		CONVERT A STRING TO INTEGER
		XXXXXXXXXXXXXXXX
		
		CONVERT A INTEGER TO STRING
		XXXXXXXXXXXXXXXX

FUNCTION	DEFINE A FUNCTION
	`def sum(n1, n2):`
	`    total = n1 + n2`
	`    return total`
	
	`print(sum(100,200)) -> 300`
		DEFINE A FUNCTION
		XXXXXXXXXXXXXXXXXX
		
		DEFINE AN ARRAY FUNCTION
		XXXXX

DATA STRUCTURES	**ARRAY**	**ARRAY**

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
		ARRAY
		# Create empty array
		XXXXXXXXXXXXXXX
		
		# Create array with values
		XXXXXXXXXXXX
		
		# Access using index
		XXXXXXXXXXXXXXXXX
		
		# Insert value at index
		XXXXXXXXXXXXXXX
		
		# Insert value at the end
		XXXXX
		
		# Remove using index
		XXXXX
		
		# Get a sub array
		XXXXX
		
		ARRAY 2D
		
		# Create array2D with values
		XXXXX
		
		# Access using index
		XXXXX
		
		OBJECT
		# Create empty object
		XXXXX
		
		# Create array with values
		XXXXX
		
		# Access using key
		XXXXX
		
		# Add value for a new key
		XXXXX
		
		# Update value from existing key
		XXXXX
		
		# Remove using key
		XXXXX

```
dic. pop(key2)
```

Q2   **The 3 ways to declare a variable in JS**

```
var a = 4
Let a = 4
const a = 4
```

⇨ Can you explain what the differences?