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

	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 A 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 A 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
```

ARRAY

```
# Create empty array
let array = [];

# 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
XXXXX

# 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
```

	dic. pop(**key2**)	