**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** |  | IS EQUAL, IS GREATER |  |
|  | x = 5 |  |  |  |
|  | y = 5 |  |  |  |
|  | print (x == y) |  |  |  |
|  | >True |  |  |  |
|  | **AND / OR / NOT** |  | AND / OR / NOT |  |
|  | x = 5 |  |  |  |
|  | y = 5 |  |  |  |
|  | print (not (x == y and ( x>5 or y<10) )) |  |  |  |
|  | >False |  |  |  |
|  |  |  |  |  |
| **TYPES** | CONVERT A STRING TO INTEGER |  | CONVERT A STRING TO INTEGER |  |
|  | **int**(<**STRING>)** |  |  |  |
|  | n = ‘5’ |  |  |  |
|  | print (int(n) + int(n)) |  |  |  |
|  | >10 |  |  |  |
|  | CONVERT A INTEGER TO STRING |  | CONVERT A INTEGER TO STRING |  |
|  |  |  |  |
|  | **str**(<**INTEGER>)** |  |  |
|  |  |  |  |
|  | n = 5 |  |  |  |
|  | print (str(n) + str(n)) |  |  |  |
|  | >55 |  |  |  |
|  |  |  |  |  |
| **FUNCTION** |  |  |  |  |
|  | DEFINE A FUNCTION |  | DEFINE A FUNCTION |  |
|  | def sum(n1, n2): |  |  |  |
|  | total = n1 + n2 |  |  |  |
|  | return total |  |  |  |
|  |  |  |  |
|  | print(sum(100,200)) -> 300 |  | |  |
|  |  |  |  |
|  |  |  |  |  |

**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]

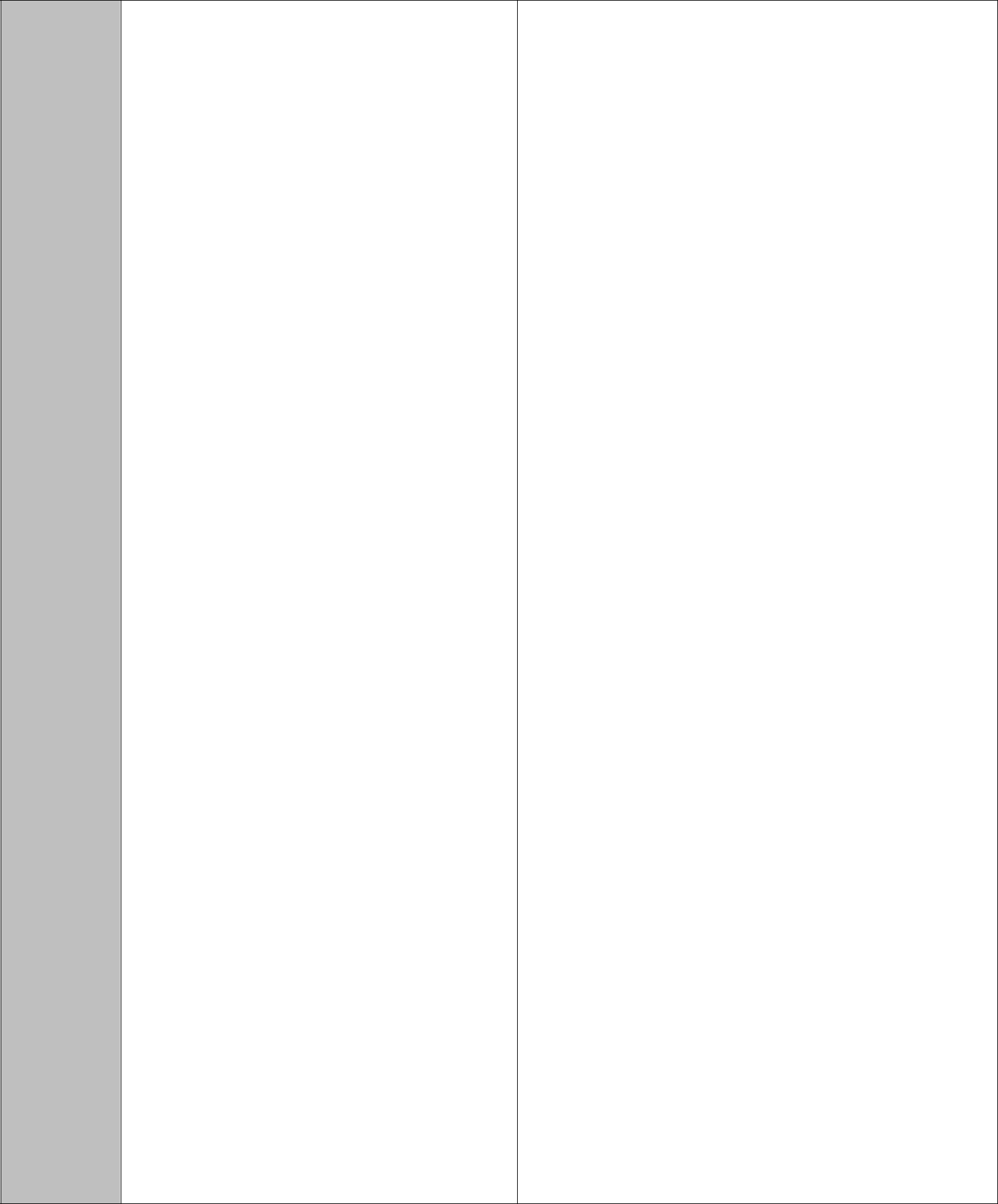
**DICTIONARY**

* 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
* Create array with values
* Access using index
* Insert value at index
* Insert value at the end
* Remove using index
* Get a sub array

**ARRAY 2D**

# Create array2D with values

* Access using index

**DICTIONARY**

* Create empty dictionary
* Create array with values

# Access using **key**

* Add value for a new key
* Update value from existing key
* Remove using key

dic. pop(**key2**)