**JavaScript**

To enter JavaScript you can open a browser on a page (usually incognito) and right click > inspect element. Then go to console tab and you can start entering in JavaScript.

**Commenting Code**

To comment code use two forward slashes. Ex: // here is a comment

**Clearing Console**

clear()

**Alerts**

alert(displayWhateverIsHere)

**Basic Data Types**

Numbers

Strings

Booleans

Undefined

Null

**Adding 1 to a number**

Var = var + 1

Var += 1

Var++

**Numbers in JavaScript**

JavaScript treats all numbers (integers and floats) as the same.

**Length**

Python = len(“django”)

JavaScript = “django”.length

**Print to console**

Python = print(“hello console”)

JavaScript = console.log(“hello console”)

**Prompts/Inputs**

Python = input(“Input here”)

JavaScript = prompt(“Input here”)

**Variables**

Format for making a variable is:

var varName = value;

Can reassign variables in if statements:

var hot = false;

Var temp = 60;

If (temp > 80) {

Hot = true

}

Naming format for variables is camel casing. So first word is lowercase, rest of words are not separated by spaces by the first char of word is capitalized.

Ex: bankAccount, fordEscortNew

**Equality**

Python: 2 == “2” is False

Javascript: 2 == “2” is true

To fix: 2 === “2” is false

(Same for inequality: != will return false, !== will return true)

**Logical Operators**

AND operator = &&

Python: 1 == 1 and 2==2:

JavaScript: 1===1 && 2==2;

OR operator = ||

Python: 1 == 2 or 1 == 1:

JavaScript: 1 === 2 || 1 === 1;

NOT operator = !

Python: 1 != 2:

JavaScript: !(1 === 2) or 1 !== 2

**Control Flow**

IF Statement

Python:

if condition:

Execute code

JavaScript:

If (condition){

Execute code

}

IF ELSE Statement

Python:

if condition:

Execute code

Else:

Execute some other code

JavaScript:

If (condition){

Execute code

}else{

Execute some other code

}

IF, ELSE IF, ELSE Statement

Python:

if condition:

Execute code

elif condition\_two:

Execute this code

else:

Execute some other code

JavaScript:

if (condition){

Execute code

}else if (condition two){

Execute this code

}else{

Execute some other code

}

While Loop

JavaScript:

while (condition) {

Execute some code while condition is true

}

While Loop with IF

var x = 0;

while (x < 5) {

console.log(x);

if (x === 3) {

break;

}

x = x + 1;

}

FOR Loops

JavaScript has 3 types of For Loops:

For - loops through a number of times

For/in - loops through a JS object

For/of - used with arrays

For Loop

For (statement1; statement2; statement 3) {

Code

}

Statement1 is executed before the loop starts.

For (var i = 0;; statement2; statement 3) {

Code

}

Statement2 defines the condition for running the loop.

For (var i = 0; i < 5; statement 3) {

Code

}

Statement3 is executed each time after the loop cycles through.

For (var i = 0; i < 5; i++) {

Code

}

**Connecting .js file to html file**

<script src=”yourfile.js”></script>

Notes:

End code lines with “;”