Javascript Basics

Let's get our hands dirty

What is a language made up of?

WORDS ⟶ NAMES, RESERVED NAMES and NUMBERS

SENTENCES ⟶ STATEMENTS

RULES TO MAKE SENTENCES ⟶ RULES TO MAKE STATEMENTS

Functions

names

keyword

function FunctionName(var1, var2) {

    return [some things done using **var1** and **var2**];

}

keyword

statement

Names of 3 things here:
1. The function itself
2. var1, and
3. Var2

Rules:
1. Names need to start with a letter
2. Can have numbers or letters
3. Cannot be the same as keywords.

Examples

```
function add( x, y ) {

        return x+y;

}


function numOfHandshakes( nPeople) {

        return nPeople * (nPeople - 1) / 2;

}


function sumFrom1ToN( n ) {

        return n * (n + 1) / 2;

}
```

"CALLING" a function

Functions are made with "variables".

So you can set different VALUES to them.

When you do, that's called CALLING the function.

E.g.

add(10, 20);

numOfHandshakes(20);

"CALLING" a function

Every call to a function MUST return a <u>value</u>.

E.g.

add(30, 40)   will *return* 70

numHandshakes(5) will return 10

Sending Output to the Screen #1

console.log(<whatever you want to output>);

(Don't forget the semi-colon ;)

Program to calculate the speed of a car

Program to calculate the average marks of a student

How fast will a car be?