TinyScript specifikáció

Variables

Types

- integer
- boolean
- string

Declaration

type name;
Where type can be integer, boolean or string or
var name;

Assigning values

Assigning values to variables can be done with the = operator. name = value; value can be null, an other variable or an expression

Supported operators

Integer

- + Addition
- Substraction
- * Multiplication
- / Division
- < Lesser
- <= Lesser or equal
- == Equal
- != Not Equal
- > Greater
- >= Greater or equal

Boolean

- + Or
- * And
- ! Not
- == Equal
- != Not equal

String

- + Addition
- == Equal
- != Not equal

Arrays

Declaration

type name[x];Where type can be integer, boolean or string.x represents the number of elements in the array.

Assigning values

name[x] = value;Where x is the index of the element in the array.Indexing of the elements starts from 0.

Example

int myArray[10]; Creates an array with 10 elements.

myArray[5] = 0; Sets the sixth element to 0.

Loops

While

```
The given expression must be a boolean value. The while loop runs when the expression is true.
```

Do While

}

The given expression must be a boolean value.

The while loop runs while the expression is true.

It runs at least on time no matter if the expression is true or not.

```
do{
  statement;
} while (expression);
```

Conditional statement \rightarrow if - else

The given expression must return a boolean value. If the expression is true, then the statement is executed.

Outputs

print

print string

Prints a string to the standard output.

Functions

Inbuilt functions

abs

Returns the absolute value of the given number.

abs(number);

max

Returns the maximum value of the given numbers.

max(number1,number2,number3);

min

Returns the minimum value of the given numbers.

 $\pmb{min} (number 1, number 2, number 3);$