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Variable type

There are 3 types of variable in javascript

Type	in latin	Description
lambang	wilangan	Number, can be integer or floating point
tulisan	tulisan	String
kalimat	katrangan	Statement

Number literal has to be written with `:` surrounding the number, for example : `1` `12` `42`.

String literal has to be written with `"` surrounding the string, for example : `"iki tulisan"` (iki tulisan).

Statement is special that is has to be in the form of `value1` `comparison type` `value2`, Statement will be discussed deeper on it's own chapter.

Declaring a variable

To declare variable, use keywords `ana` (ana) or `wonten` (wonten) followed by **variable name**, followed by `niku` (niku) or `iku` (iku) and then followed by **variable type**, and always end it with `.` for example :

Example	in latin	Description
<code>ana 12, iku wilangan.</code>	<code>ana 12, iku wilangan.</code>	Declaring variable <code>12</code> as number
<code>wonten "iki tulisan".</code>	<code>wonten "iki tulisan".</code>	Declaring variable <code>"iki tulisan"</code> as string
<code>ana 12, niku katrangan.</code>	<code>ana 12, niku katrangan.</code>	Declaring variable <code>12</code> as statement

you can freely interchange between `ana` (ana) and `wonten` (wonten), also `niku` (niku) and `iku` (iku).

Notice that in some cases, the letter merge, as in `"iki tulisan"` the `iki` is merged with `iki` because the rule of aksara jawa where `iki + tulisan` `> tulisan`. In this case, the variable name will still be recognized as `iki`. To help with this, you can use `"` and `"` as in `"iki tulisan"` so that the letter won't merge. But remember, in that cases, the variable will be recognized as `"iki tulisan"` and is different from `iki`.

After declared, variables will have a default value. **Number** variables will be set to `0`, **String** variables will be set to `"` (empty string), while **statement** will be set into `"` equal to `"`.

Initializing a variable and setting a value

To initialize variable or set a value to a variable, use keyword `ganti` (ganti) or `gantos` (gantos), followed by **variable name**, followed by `dadi` (dadi), followed by the *value* to assign, and always end it with `.` For example :

Example	in latin	Description
<code>ganti 12 dadi 2</code>	<code>ganti 12 dadi 2</code>	Setting value 2 to variable <code>12</code> (where <code>12</code> is a number variable)
<code>ganti "iki tulisan" dadi "iki tulisan"</code>	<code>ganti "iki tulisan" dadi "iki tulisan"</code>	Setting value "iki tulisan" to variable <code>"iki tulisan"</code> (string)
<code>ganti 12 dadi 12 luwih saka 2</code>	<code>ganti 12 dadi 12 luwih saka 2</code>	Setting a statement " <code>12</code> is greater than 2" to <code>12</code> (statement)

Initialization and value setting done this way must be done with literals, for example, `ගැන්මි ලාදාඩිල` (`ganti ladi l`) is not a valid statement to copy the value from `ල` to `ල`, value copying can be done using variable operator.

Printing

To print a value of an existing variable, use the keyword `ලැව්ම` (`tulis`), followed by **variable name**, and always end it with `.`. For example `ලැව්මල.` (`tulis l.`) will print the value of `ල`. You can also print a literal, for example `ලැව්මලැව්මඩාල` (`tulis "ලැව්මඩාල"`) will print `ලැව්මඩාල`. And `ලැව්මල-ෆ` (`tulis 12.`) will print `12`. To print a new line you can use `ගාරිෆ` (`garis anyar`) or `බාරිෆ` (`baris anyar`).

Statement

Statement variable has value in the form of `value1 comparison type value2`. A value could be either a literal or a variable name. The comparison types that are available are :

Comparison Type	in latin	Description
ලැව්මඩාල	luwih saka	> greater than
ලැව්මඩාල	kurang saka	< less than
ලාලාලාලා	padha karo	= equal to
ලාලාලා	ora	¬ not

for example, when variable `ල` is set to the statement "`ල` is greater than 2", it'll evaluate to either `true` or `false` depending on the value of `ල`. String comparison are also possible. Out of 4 comparison types that are available, `ලාලාලා` (`ora`) is a bit different that it only accept one argument. So let's say we have a statement variable `ල` (`pa`) and we want to negate it with variable `ල` (`dha`) i.e. `ල := ¬ල`, we can set `ල` with `ගැන්මි ල දාඩි ලාලාලා` (`ganti l dadi ora l`). There are two default statement variable that have predetermined value, that is `බෙර` (`bener`) which return `true`, and `සාල` (`salah`) which return `false`.

Variable Operation

You can't do explicit math operation in this language, but you can modify variable using operator. Operator that are available are :

Operator	in latin	Description
ලැව්ම	tambah	add
ලැව්ම	kurangi	subtract
ලි	ping	multiply
ලා	para	divide
ලැව්මලාලාලාලා	turahé yén dipara	modulo
ලාලාලාලා	padhakké	set into

To operate on a variable, use keyword `ගැන්මි` (`ganti`), followed by **variable name**, followed by `.`, followed by **operator**, followed by **operand**, and always end it with `.`. these operator can be called to an existing variable, and will modify it's value. All the operator takes one argument as the operand. Operand can be literal, but also can be variable name. All operation works on **number**, **string** can only use `ලැව්ම` (`tambah`) and `ලාලාලාලා` (`padhakké`), while **statement** can only use `ලාලාලාලා` `padhakké` for example, if we have variable `ල` with a value of `5`, when we call `ගැන්මි ල, ලැව්ම 2` (`ganti l, tambah 2`), the value of `ල` will become `5+2 = 7`.

Loops and conditional

Currently, this language only support while loop, which can be called using the keyword `လၢကါတၢၢ်တၢၢ်တၢၢ်` (nalika taksih) , followed by **statement variable**, and always end it with `၁` . After that, close the loop with the keyword `သီလၢကါတၢၢ်တၢၢ်တၢၢ်` (dilakokaké) . For example to print the number from `1` to `10` we can write

```
လၢကါတၢၢ်တၢၢ်တၢၢ်လၢကါတၢၢ်တၢၢ်တၢၢ်
လၢကါတၢၢ်တၢၢ်တၢၢ်လၢကါတၢၢ်တၢၢ်တၢၢ်
ကၢလၢလၢကါတၢၢ်တၢၢ်တၢၢ်
ကၢလၢလၢကါတၢၢ်တၢၢ်တၢၢ်လၢကါတၢၢ်တၢၢ်တၢၢ်
လၢကါတၢၢ်တၢၢ်တၢၢ်တၢၢ်
    လၢကါတၢၢ်တၢၢ်တၢၢ်လၢကါတၢၢ်တၢၢ်တၢၢ်
    ကၢလၢလၢကါတၢၢ်တၢၢ်တၢၢ်
သီလၢကါတၢၢ်တၢၢ်တၢၢ်
```

explanation

Code	in latin	pseudocode
လၢကါတၢၢ်တၢၢ်တၢၢ်လၢကါတၢၢ်တၢၢ်တၢၢ်	ana (လမ), iku wilangan.	var (လမ) : numeral
လၢကါတၢၢ်တၢၢ်တၢၢ်လၢကါတၢၢ်တၢၢ်တၢၢ်	ana (လက), iku katrangan.	var (လက) : statement
ကၢလၢလၢကါတၢၢ်တၢၢ်တၢၢ်	ganti (လမ) dadi 1.	(လမ) := 1
ကၢလၢလၢကါတၢၢ်တၢၢ်တၢၢ်လၢကါတၢၢ်တၢၢ်တၢၢ်	ganti (လက) dadi (လမ) kurang saka 11.	(လက) := (လမ) < 11
လၢကါတၢၢ်တၢၢ်တၢၢ်တၢၢ်	nalika taksih (လက).	while (လက) {
လၢကါတၢၢ်တၢၢ်တၢၢ်	tulis (လမ).	print (လမ)
လၢကါတၢၢ်တၢၢ်တၢၢ်	tulis " ".	print " "
ကၢလၢလၢကါတၢၢ်တၢၢ်တၢၢ်	ganti (လမ), tambah 1.	(လမ) := လမ+1
သီလၢကါတၢၢ်တၢၢ်တၢၢ်	dilakokake	}

Loop can be exited with the keyword `ဘၢလၢကါတၢၢ်တၢၢ်` (rampung.) .

Keyword	in latin	Description
ဘၢလၢကါတၢၢ်တၢၢ်	rampung	break out of loop

Conditional if can be constructed using while loop and breaking the loop after. For example

```
လၢကါတၢၢ်တၢၢ်တၢၢ်တၢၢ်
    ...instructions..
ဘၢလၢကါတၢၢ်တၢၢ်
သီလၢကါတၢၢ်တၢၢ်တၢၢ်
```