Standard Fx

Fx is a language which design to use in some small occasion:

For example, you can print "Hello World" like this:

print("Hello World")

Also, you can sort a list named xs like this:

 $sort(xs,(x,y)=>\{x < y\})$

A function you write could insert in any right places and means the same function in the same application's source code, like this function:

 $(x)=>\{x<0:f(x),x=0:g(x),x>0:t(x)\}$

You can create an object like this:

pair{fst:0,snd:1}

However, you can't write notes for your code!

Here is the definition of Fx:

Sign	Form	Description	Note	
#	One of + or - or * or / or < or > or <= or >= or = or /= or /\ or \/ or \	An operator	There is no priority in operators	
Vi	Consist of Aa-Zz or _ but no beginning with _	An identifier	V _i is an variable in default	
			The variable V _i refers the global variable V _i 's value in default	
	(V ₁ ,V ₂ ,,V _m)=>{E ₋₁ :E ₁ , E ₋₂ :E ₂ ,, E _{-n} :E _n }	A function	Note	Туре
			The variable V ₀ in E _{-j} or E _j must refers the global variable V ₀ 's value(It is Law A)	
			The variable V _i in E _{-j} or E _j must refers the NO.i value (V ₁ ,V ₂ ,,V _m)=>{E ₋₁ :E ₁ , E ₋₂ :E ₂ ,, E _{-n} :E _n } received(Except disobey Law	_func
			A)	
			As soon as E _{-j} is _true, it returns E _j 's value	
			If n=1 and E ₋₁ always is _true then E ₋₁ :E ₁ could write as E ₁	
			i=1,2,,m,j=1,2,,n,m>0,n>0	
	Consist of 0-9 and at most one . and e or e- in it	A number	Float number	_num
	_nan		_nan refers nan	
	_inf		_inf refers inf	
	Consist of chars in ""	A string	"" means "	_str
	Consist of chars in "	An error message	" means '	_err
	_true	A bool	If E ₀ 's value is _true then what statement expressed by E ₀ is true	_bool
_	_false		If E ₀ 's value is _false then what statement expressed by E ₀ is false	
E _i	{}	A P	An empty list	P.
'	{E ₁ ,E ₂ ,,E _n }	A list	A list that has n(n>0) members	_list
	V ₀ {V ₁ :E ₁ ,V ₂ :E ₂ ,,V _n :E _n }	An object or an error message	V₀ is a type name	•
			V _i is a member variable	
			T is a value which type is V₀	
			The member variable V₁ of T refers 'undefined'	
			The member variable V _i of T refers E _i 's value	
			If (?T)'s value is _true then V ₀ {V ₁ :E ₁ ,V ₂ :E ₂ ,,V _n :E _n }'s value is T else V ₀ {V ₁ :E ₁ ,V ₂ :E ₂ ,,V _n :E _n }'s value is 'Create obj	ect error'
			i=1,2,,n,n>0	
	$E_0(E_1,E_2,,E_n)$	A function call	E ₀ receives E ₁ ,E ₂ ,,E _n in order and return a value as E ₀ (E ₁ ,E ₂ ,,E _n)'s value	
	L0(L1,L2,,Ln)		i=1,2,,n,n>0	
	E ₁ .V ₁	A member variable	Get the member variable V ₁ 's value of E ₁ 's value	
	(-E ₁)	A calculation	If the char before (-E ₁) is (or { or , or : then (-E ₁) could write as -E ₁	
	(?E ₁)		If the char before $(?E_1)$ is (or $\{ or, or : then (?E_1) could write as ?E_1 \}$	
	(E ₁ #E ₂)		E ₁ and E ₂ must have the same type	
	(L1#L2)		If the char before ($E_1\#E_2$) is (or { or , or : then ($E_1\#E_2$) could write as $E_1\#E_2$	
	V ₀ :E ₀	Define a global variable	The global variable V ₀ 's value is E ₀ 's value	Blank chars will be ignored
	V ₀ :		The global variable V ₀ 's value is inexpressible by Fx	
	-V ₁ :E ₀	Define a calculation	If E_1 's type is $V_1(V_1$ is a type name here) then $(-E_1)$'s value is $(V_1)=>\{E_0\}(E_1)$'s value	
Di	?V₁:E₀		If E_1 's type is $V_1(V_1$ is a type name here) then $(?E_1)$'s value is $(V_1)=>\{E_0\}(E_1)$'s value	
P _i D _i	V ₁ #V ₂ :E ₀		If E_1 's type is $V_1(V_1$ is a type name here) then $(E_1\#E_2)$'s value is $(V_1,V_2)=>\{E_0\}(E_1,E_2)$'s value	
	\$F	Immed a City	F is a file path	except in "" or "
	&F	Import a file	F is the file name of a file in standard library Import the file what F refers	
M	$D_1 D_2$	Multiple definitions or import files	D ₁ D ₂ is the same as D ₂ D ₁]