if – statement:

Statement 🡪 if-stmt | **other**

if-stmt 🡪 **if** ( exp ) statement else-part

else-part 🡪 **else** statement | ε

exp 🡪 0 | 1

stmt-sequence 🡪 stmt ; stmt-sequence | stmt

stmt🡪s

exp 🡪 exp op exp

exp 🡪 number

exp 🡪 (exp)

op 🡪 + | - | \* | / | ^ | | |

exp 🡪 exp bitop term0 | term0

bitop 🡪 | | & | ^

term0 🡪 term0 addop term1| term1

addop 🡪 + | -

term1 🡪 term1 mulop factor | factor

mulop 🡪 \* | /

factor 🡪 ( exp ) | number

*expr → expr addop term*∣*term*

*addop → + -*

*term → term mulop factor* ∣ *factor*

*mulop → \**

*factor → (expr)* ∣ *number*

variable declaration:

decl 🡪 **var** var\_list [**;**]

var\_list 🡪 var\_exp {**,** var\_exp}

var\_exp 🡪 **ID** [ **=** expression]

expression:

expression 🡪 {**ID** assignop} term0

term0 🡪 term1 ?

🡪 {term }

expression 🡪 term0 {bitop term0}

term0 🡪 term1 {addop term1}

term1 🡪 factor {mulop factor}

factor 🡪 function | [+|-] number | ( expression )

number 🡪

function decleration:

function\_decl 🡪 **FUNCTION** [name] **(** argument **)** **{** function\_content **}**

argument 🡪 expression {, expression}

function:

function\_stmt 🡪 function