

### Printing

COUT -> dekhao PRINT  
PRINT -> << Id|String|Num|Exp PRINT|;

### Input from user

CIN -> lo << Id|String|Num|Exp >> id|id@datatype  
| lo >> id|id@datatype

### All type of statements

Statements -> CALLFUNC  
| IF  
| FUNC  
| COUT  
| CIN  
| LOOP  
| VAR  
| RETURN

### Variable declaration and Assignment statements

VAR -> rakho id  
ASSIGN -> @adad:= id|Num|callFUNC  
ASSIGN -> := id|Num|callFUNC

### Variable declarartion

VAR -> rakho id @ datatype; | rakho id @ datatype := Exp|CALLFUNC ;

### For loops

LOOP -> jab tak(REXP) karo  
Statements  
Bas karo

### If statements

IF -> agar (REXP) to phir karo Statements Warna ELSEIF | ELSE bas karo  
ELSEIF -> agar (REXP) to phir Statements ELSEIF | ^  
ELSE -> phir Statements | ^

### For function calls

callFUNC -> chalao id (args)  
args-> | id args | ^

### For function declaration

FUNC-> Kaam id@FUNCTYPE(params) karo statements Kaam khatam  
params-> | id @ datatype params | ^

## EXP Operations

EXP  $\rightarrow$  TR  
R  $\rightarrow$  +EXP R  
R  $\rightarrow$  -EXP R  
R  $\rightarrow$  ^  
T  $\rightarrow$  F Q  
Q  $\rightarrow$  \* T Q  
Q  $\rightarrow$  / T Q  
Q  $\rightarrow$  % T Q  
Q  $\rightarrow$  ^  
F  $\rightarrow$  id  
F  $\rightarrow$  Num  
F  $\rightarrow$  (E)

## Relational Expression

REXP  $\rightarrow$  EXP RO EXP

## Function

FUNC  $\rightarrow$       kaam id @datatype(FUNCARG) STATEMENTS kaam khatam  
FUNC  $\rightarrow$       kaam markazi @datatype() STATEMENTS kaam khatam  
FUNCARG  $\rightarrow$  id@datatype FUNCARGS| ^  
FUNCARGS  $\rightarrow$  |id@datatype | ^