*File AST.docx*

*Following are the changes in the AST definitions*

1. *Funct(Return\_Type, Parameters, Declaration\*, Statement) becomes Funct(Function\_Name, Return\_Type, Parameters, Declaration\*, Statement), where Function\_Name is the ID representing the function.*
2. *The definition FunctType( ID\_FunctName, ResultType, Parameters) is removed.*
3. *OUT\_Stmt(ID\_output) becomes OUTStmt(ID\_output)*
4. *Statement = AssignmentStmt | ConditionalStmt | RepetitiveStmt | ReturnStmt | IO\_Stmt | FunctionCallStmt becomes*

*Statement = AssignmentStmt | ConditionalStmt | RepetitiveStmt | ReturnStmt | IO\_Stmt | FunctionCallStmt | EmptyStmt*

*and add*

*EmptyStmt(NULL).*

1. BoolExp = EqualityExp | NotEqualityExp | LT\_Exp | LE\_Exp | GT\_Exp | GE\_Exp

becomes

BoolExp = EqualityExp | NotEqualityExp | LT\_Exp | LE\_Exp | GT\_Exp | GE\_Exp | ID\_Exp

where ID\_Exp is ID\_Exp(ID\_Left)

*Context Rules*

*1) Any name (var ID or Fun ID) should be uniquely defined in any given scope.*

* + 1. *For any function, the names in it's scope includes all the VAR's defined inside it, and the function definitions (not VAR's inside them) that precede it in the program text. (Note: This is to clarify the context rule 6 in the type.docx)*
    2. *Return statement can return only the OUTID defined in the function definition.*
    3. *(to clarify further the context rule-3) A function whose return type is TK\_KEY\_NONE, should not contain a return statement.*