Grammar for Project Phase 3 (Translation Scheme)

```
Stmt -> WhileStmt | Expr :: | IfStmt | CompStmt | Declaration | ::

Declaration -> Type IdentList ::

Type -> Adadi | Ashriya | Harf | Matn | Mantiqi

IdentList -> identifier , IdentList | identifier

WhileStmt -> while (Expr) Stmt

IfStmt -> Agar (Expr) Stmt ElsePart

ElsePart -> Wagarna Stmt | \( \)

CompStmt -> \{ StmtList \}

StmtList -> StmtList \}

StmtList -> StmtList Stmt | \( \)

Expr -> identifier := Expr | Rvalue

Rvalue -> Rvalue Compare Mag | Mag

Compare -> == | < | > | < | > = |! = | <>

Mag -> Mag + Term | Mag - Term | Term

Term -> Term * Factor | Term / Factor | Factor

Factor -> (Expr) | identifier | number
```

Output

