Lexer Class: - Taken - + type, val, lineNum Liget-type(), get-val(), get-lineNom(), KC - Symbol + type, Scope, value, line of Declaration vector: functions: - Keywords - Scan() - bccleans - is\_ keyword () - arithmetic operators identifier () - rational operators operator () -assignment-operators bcolean () - logical-operators misc () - all operators Keystatement () parenthesis () - operator type() - Keyward - Statements -valid-parenthesis - get\_parenthesis\_type() -Tokens = reset() -tester() unordered map: - Sym\_table

Deconstructing Scan () Scan main while loop + increment lineNum iFnewline if statement + store taken for statement if "is found > Store everything until next " + Store token for Keyword if Keyword Istore token for identifier if parentlesis if ['or'] + lex for an array if '('cr'(') > lex for normal puran if misc > lex for semicolog if ',' -> lex for comma + lex for comment is literal > lexter literal is alphanim I add char