AIM: Implementation of scanner phase (w/o using any automated tools). Write scanner algorithm for implementing the "D" language, Generate scanner in "C" code for language "D" given below

Rules of language "D"

a) Keywords: if,for,while,do,exit,else,case,switch,until

b) Identifiers: starting with alphabet (big or small) and followed by one or more alphabets or numbers

c) Numbers: (1) float number: having one '.' and valid formats are .Num or Num.Num or Num .0

(2) integer number: simple number, starting with digit followed by zero or more digits

d) Single line comments starting with ***

e) White space characters are - blanks and tabs

f) punctuations are: [,],{,},(,) and comma

g) operators: :=,<>,= = ,!= , <=, <=, (relational),+,-,*,% (mathametical)

h) string constant: in ' '   Note-no enclosing quotes allowed in langauge