```
/*************************************************************************/
/*                                                                       */
/* FILE    : lex.one.l                                                   */
/* PURPOSE :                                                             */
/*                                                                       */
/*************************************************************************/

/*************************************************************************/
/* NOTE:  all text between the %{ and the %} is just copied into         */
/*        lex.yy.c                                                       */
/*************************************************************************/

%{
#include <stdio.h>
#include "tokdefs.one.h"
%}


/*************************************************************************/
/* Regular Definitions                                                   */
/*************************************************************************/

delim   [ \t\n]
ws      {delim}+
letter  [A-Za-z]
digit   [0-9]
id      {letter}({letter}|{digit})*
number  {digit}+

%%      /* Marks the beginning of the definitions                */
        /* In this section any lines beginning with a blank are  */
        /* copied into lex.yy.c                                  */

 printf("*****\n");

{ws}    { /* no action and no return */ }
if      { return(IFtok); }
then    { return(THENtok); }
else    { return(ELSEtok); }
"<"     { return(LTtok); }
"<="    { return(LEtok); }
"="     { return(EQtok); }
"<>"    { return(NEtok); }
">"     { return(GTtok); }
">="    { return(GEtok); }
{id}    { return(install_id()); }
{number}        { return(install_num()); }
.       { return(ERRORtok); }

%%      /* The other code to be included in lex.yy.c             */


/*************************************************************************/
/*                                                                       */
/* FUNCTION : install_id()                                               */
/* PURPOSE  : install_id() places the current lexeme into the            */
/*            identifier table                                           */
/*                                                                       */
/*************************************************************************/

install_id(){
        return(IDtok);
}

/*************************************************************************/
/*                                                                       */
/* FUNCTION : install_num()                                              */
/* PURPOSE  : install_num() takes a numeric token and installs it into   */
/*            a lexeme table of numbers.                                 */
/*                                                                       */
/*************************************************************************/

install_num(){
        return(NUMtok);
}
```