22:COUNT CONSTANTS LEX PROGRAM:

%{

int nmacro, nheader;

%}

%%

^#define { nmacro++; }

^#include { nheader++; }

.|\n { }

%%

int yywrap(void) {

return 1;

}

int main(int argc, char \*argv[]) {

yyin = fopen(argv[1], "r");

yylex();

printf("Number of macros defined = %d\n", nmacro);

printf("Number of header files included = %d\n", nheader);

fclose(yyin);

}digit [0-9]

%{

int cons=0;

%}

%%

{digit}+ { cons++; printf("%s is a constant\n", yytext); }

.|\n { }

%%

int yywrap(void) {

return 1; }

int main(void)

{

FILE \*f;

char file[10];

printf("Enter File Name : ");

scanf("%s",file);

f = fopen(file,"r");

yyin = f;

yylex();

printf("Number of Constants : %d\n", cons);

fclose(yyin);

}

OUTPUT:

