**Lex1.l:-->**

%{

#include <stdio.h>

%}

%%

float|char|int|double|long {printf("%s is a datatype \n",yytext);}

["|,|!|{|}|[|]|.] {printf("%s is a special character\n",yytext);}

= {printf("%s is a assignment operator\n",yytext);}

[+|-|\*|/] {printf("%s is a arithmetic operator\n",yytext);}

[<|>|<=|>=|==] {printf("%s is a relational operator\n",yytext);}

[a-zA-Z]+[a-zA-Z0-9]\* {printf("%s is a identifier\n",yytext);}

["]+[a -zA-Z0-9]+["] {printf("%s is a message\n",yytext);}

%%

int yywrap(void)

{

return 1;

}

int main()

{

FILE \*fp= fopen("hello.java","r");

yyin=fp;

yylex();

return 0;

}

**hello.java:-->**

public class hello{public static void main(string args[]){System.out.println("hello world");}}

**OUTPUT:-->**

public is a identifier

class is a identifier

hello is a identifier

{ is a special character

public is a identifier

static is a identifier

void is a identifier

main is a identifier

(string is a identifier

args is a identifier

[] is a special character

){ is a special character

System is a identifier

.out is a identifier

.println is a identifier

(" is a special character

hello world is a message

" is a special character

);} is a special character

} is a special character