## Roll No:-13125

## Code:-Ass3.l Token.l %{%} %{ #include<stdio.h> quotes ["""] #include "y.tab.h" comment ("//".\*) %} comment2 ("/\*".\*"\*/") %% %% int|float|char return BUILTIN; public|private|protected {printf("%s : is a Access "," return COMMA; specifier\n",yytext);} ";" return SC; class|System|out|println|void|main|static [a-zA-Z]+[a-zA-Z0-9]\* return ID; {printf("%s : is a Keyword\n",yytext);} int|double|char|String {printf("%s: is a "\n" return NL; DataType\n",yytext);} %% [A-Z]+[a-z]\* {printf("%s : is a Class-Ass3.y Name\n",yytext);} [A-Z]\*[a-z]+ {printf("%s : is a Variable\n",yytext);} %{ "+"|"-"|"<"|">"|"!"|"%"|"&"|"^"|"\*"|"?"|"=" #include<stdio.h> {printf("%s : is a Operator\n",yytext);} %} %token ID BUILTIN SC NL COMMA "["|"]"|"{"|"}"|"("|")" {printf("%s: is a %% Bracket\n",yytext);} ","|"."|":"|";" {printf("%s: is a start:BUILTIN varlist SC NL {printf("\nValid syntax\n");} Delimiter\n",yytext);} [0-9]+ {printf(" %s : is a Number\n",yytext);} {quotes} {printf(" %s : is a Quote\n",yytext);} varlist:ID | varlist COMMA ID {comment} {printf(" %s : is a Single line %% Comment\n",yytext);} void yyerror() {comment2} {printf(" %s : is a Multiline {printf("\nerror\n");} Comment\n",yytext);} int yywrap() %% {return 1;} main(argc,argv) main() int argc; char \*\*argv; {yyparse();} {if(argc >1){ Hello.txt FILE \*file: public class Helloworld { file=fopen(argv[1],"r"); public static void main(string args if(!file){ $[]) \{ int i = 0; \}$ fprintf(stderr,"Could not System.out.println("Hello World"); open %s\n",argv[1]); } } exit(1);} vvin=file;} yylex();} int yywrap(){ return 1;

}

## Output:-

## Lexeme

Licacinic	
public	Keyword
class	Keyword
Helloworld	Identifier
{	Separator
public	Keyword
static	Keyword
void	Keyword
main	Identifier
(	Separator
string	Identifier
args	Identifier
[	Separator
]	Separator
)	Separator
{	Separator
int	Keyword
i	Identifier
=	Operator
0	Literal
;	Separator
System	Identifier
•	Operator
out	Identifier
•	Operator
println	Identifier
(	Separator
"Hello World"	Literal
)	Separator
;	Separator
}	Separator
}	Separator