While( a > b) id relop id

{ a = b+ c;

}

While( a > b && c < 10 ) id relop id logop id relop id

{

C = c +10;

X = Y +z;

}

While( 1 ) number

{

A = A + 20;

}

%token while NUM id OP relop

%%

Sentence : while ‘(‘ C ‘)’ ‘{‘ L ‘}’ { printf ( “ Valid while statement\n”); }

;

C : NUM | id relop id

;

L : A | A L

;

A : id ‘ = ‘ id OP id ‘ ; ‘ | id ‘ = ‘ id OP NUM ‘ ; ‘

;

%%

main( )

{

yyparse();

}

Lexical .y

%{

#include<stdio.h>

%}

%%

While { return while; }

[a-z] ….. { return id; }

[0-9]+ { return NUM; }

‘+’ | ‘-‘ …… { return OP; }

‘<’ | ‘>’ | ‘<=’ … { return relop;}

&& ….. { return logop;}

%%

* Lex ex.l
* Yacc -d ex.y
* Gcc lex.yy.c y.tab.c
* Cd ..
* a.out