**Eng.l:-->**

%{

#include "y.tab.h"

char infile[25];

%}

%%

he|she {return PRONOUN;}

is|am|went|was|walking {return VERB;}

quietly|simply|gently {return ADVERB;}

to|a|the|with {return PREPOSITION;}

your|his|her {return ADJECTIVE;}

[\n] {return NEWLINE;}

[ ] {}

and|or|but|though|because|since {return CONJUNCTION;}

[a-zA-Z][a-zA-Z0-9]\* {return NOUN;}

. { yyerror("lexical error");}

%%

int yywrap()

{

return 1;

}

**eng.y:-->**

%{

#include "stdio.h"

void yyerror(char \*str);

char infile[25];

FILE \*yyin;

%}

%token NOUN PRONOUN VERB ADVERB ADJECTIVE PREPOSITION CONJUNCTION NEWLINE

%%

sentence:sentence simple\_sentence NEWLINE {printf("it is a simple sentence\n");}

|sentence NEWLINE

|sentence compound\_sentence NEWLINE {printf("it is a compound sentence\n");}

|

;

simple\_sentence: subject verb object

;

compound\_sentence:simple\_sentence CONJUNCTION simple\_sentence

|simple\_sentence CONJUNCTION subject

;

subject:NOUN

|PRONOUN

|ADJECTIVE subject

|

;

object:NOUN

|ADJECTIVE object

|Preposition NOUN

|ADVERB object

|

;

Preposition:PREPOSITION PREPOSITION

|PREPOSITION

;

verb:VERB

|ADVERB VERB

|VERB VERB

;

%%

int main()

{

printf("Enter the file name:\n");

scanf("%s",infile);

yyin=fopen(infile,"r");

yyparse();

return 0;

}

void yyerror(char \*str)

{

printf("Error");

}

**input.txt:-->**

he is a boy

he went to the beach

he is a boy

he was walking quietly

your book is with me

he is a boy and she is a girl

tom was ill since yesterday

**OUTPUT:-->**

student@student-OptiPlex-380:~$ lex eng.l

student@student-OptiPlex-380:~$ yacc -d eng.y

student@student-OptiPlex-380:~$ cc lex.yy.c y.tab.c

student@student-OptiPlex-380:~$ ./a.out

Enter the file name:

input.txt

it is a simple sentence

student@student-OptiPlex-380:~$ ./a.out

Enter the file name:

input.txt

it is a simple sentence

it is a simple sentence

it is a simple sentence

it is a simple sentence

it is a simple sentence

it is a compound sentence

it is a compound sentence

student@student-OptiPlex-380:~$