**Code:-**

**Sentence.l**

%{

#include "y.tab.h" //Contains Token Definiation

%}

%%

[\t ] ; //IGNORE WHITE SPACES

am|is|are|have|has|can|will|shall|eat|sing|go|goes { printf("VERB\t==>%s\n",yytext);return VERB;}

very|simply|gently { printf("VERB\t==>%s\n",yytext);return(ADVERB); }

and|or|also|so|but|if|then {printf("CONJUNCTION\t==>%s\n",yytext);return (CONJUNCTION);}

fast|good|honest {printf("ADJECTIVE\t==>%s\n",yytext);return (ADJECTIVE);}

I|he|she|we|they|you|this {printf("PRONOUN\t==>%s\n",yytext);return (PRONOUN);}

in|on|to {printf("PREPOSITION\t==>%s\n",yytext);return (PREPOSITION);}

[a-zA-Z]+ {printf("NOUN\t==>%s\n",yytext);return (NOUN);}

. ; //IGNORE ANYTHING ELSE

%%

int yywrap()

{

return 1;

}

**Sentence.y**

%{

#include<stdio.h>

void yyerror(char\*);

int yylex();

FILE\* yyin;

%}

%token NOUN PRONOUN ADJECTIVE VERB ADVERB CONJUNCTION PREPOSITION

%%

sentence: compound { printf("COMPOUND SENTENCE\n");}

|

simple {printf("SIMPLE SENTENCE\n");}

;

simple: subject VERB object;

compound: subject VERB object CONJUNCTION subject VERB object;

subject: NOUN|PRONOUN;

object: NOUN|ADJECTIVE NOUN|ADVERB NOUN|PREPOSITION NOUN;

%%

void yyerror(char \*s)

{

printf("ERROR:%s",s);

}

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

{

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

yyparse();

fclose(yyin);

return 0;

}

**Output:-**

E:\TE\SPOS\Sentence>sentence.exe

Nikhil is in IsquareIT

NOUN ==>Nikhil

VERB ==>is

PREPOSITION ==>in

NOUN ==>IsquareIT

SIMPLE SENTENCE

E:\TE\SPOS\Sentence>sentence.exe

Nikhil is boy and he is student

NOUN ==>Nikhil

VERB ==>is

NOUN ==>boy

CONJUNCTION ==>and

PRONOUN ==>he

VERB ==>is

NOUN ==>student

COMPOUND SENTENCE