```
%{
       #include<stdio.h>
       #include "y.tab.h"
%}
verb
is|are|was|were|be|being|been|does|do|did|will|would|should|can|could|have|has|go|play|run|
work|write|read
adverb very|slowly|gently|calmly|quietly
preposition to|from|above|behind|below|between
conjunction if | then | and | but | or | also | so
adjective beautiful|cool|hot|calm|delightful|great|small|tall|big|small|tiny|little|large
pronoun he|she|it|they|I|this|you
noun [a-zA-Z]+
%%
{verb} {return VERB;}
{adverb} {return ADVERB;}
{preposition} {return PREPOSITION;}
{conjunction} {return CONJUNCTION;}
{adjective} {return ADJECTIVE;}
{pronoun} {return PRONOUN;}
{noun} {return NOUN;}
"\n" {return NL;}
```

```
%{
      #include <stdio.h>
      #include <stdlib.h>
      int yylex();
      int yyerror();
%}
%token NOUN PRONOUN ADJECTIVE ADVERB VERB PREPOSITION CONJUNCTION NL
%%
sentence : simple_sentence NL \{ printf("Parsed a simple sentence \n"); exit(0); \}
              | compound_sentence NL \{ printf("Parsed a Compound sentence \n"); exit(0); \}
simple_sentence : subject verb object
                 | subject verb object prep_phrase
compound sentence: simple sentence CONJUNCTION object
                           | simple_sentence CONJUNCTION simple_sentence
                            | simple_sentence CONJUNCTION CONJUNCTION object
                            compound_sentence CONJUNCTION simple_sentence
subject: NOUN
             | PRONOUN
             | ADJECTIVE subject
verb: VERB
```

| ADVERB VERB

```
| verb VERB
object : NOUN
        | ADJECTIVE object
prep_phrase : PREPOSITION NOUN
%%
int main()
{
      yyparse();
}
int yyerror()
{
       printf("Invalid Statement\n");
}
int yywrap()
{
       return 1;
}
```

student@system13:~\$ lex rn16.l

student@system13:~\$ yacc -d rn16.y

student@system13:~\$ gcc lex.yy.c y.tab.c

student@system13:~\$./a.out

I play cricket and chess

Parsed a Compound sentence

student@system13:~\$ yacc -d rn16.y

student@system13:~\$ gcc lex.yy.c y.tab.c

student@system13:~\$./a.out

I play cricket and also chess

Parsed a Compound sentence