1. Program for Tokenization (counting the no of characters, lines, spaces, words, tabs, integer, float, Sum of the given integer & float etc..,).

2. Program to implement Scanner using C.

3. Program to implement Scanner application using LEX tool.

4. Program to identify the Octal or Hexadecimal number using lex tool.

5. Program to capitalize the input string using LEX.

6. Program to find real precision numbers using lex.

7. Program to count the number of vowels and consonants in a given string using Lex.

8. Program to count no of:
   a) +ve and –ve integers
   b) +ve and –ve fractions

9. Program to count the no of comment line in a given C program. Also eliminate them and copy that program into separate file using Lex.

10. Program to count the no of 'scanf' and 'printf' statements in a C program. Replace them with 'readf' and 'writef' statements respectively using lex.

TOPDOWN PARSERS:

11. Program to implement Recursive descent parser for the given grammar.

12. Program to find FIRST elements for the given grammar.

13. Program to find FOLLOW elements for the given grammar.

14. Program to construct predictive LL1 parsing table.

BOTTOM UP PARSERS:

15. Program to implement Parser using Yacc.

16. Program to implement calculator using Yacc tool.

17. Program to recognize nested IF control statements and display the levels of nesting.

18. Program to recognize strings 'aaab', 'abbb', 'ab' and 'a' using grammar
    ($a^n b^n$, $n >= 0$)

19. Program to find the closure collections.

20. Program to construct Goto

21. Program to implement three address code generation (Triple generation).

22. Program for code generation.(assembly language code generation)

23. Program to perform optimization of the given code byCode optimization

Sample Program for CC Lab Record