C Program :

1. Comment or NOT
2. Token Recognition - to identify identifiers, constants, and operators
3. ignore redundant spaces, tabs, and ignore comments.
4. FOLLOW
5. symbol table operations
6. FIRST
7. eliminate left recursion
8. recursive descent parsing
9. Shift Reduce Parsing
10. Intermediate code : Quadruple
11. Intermediate code : Triple
12. eliminate left factoring
13. back end of the compiler
14. number of whitespaces and newline characters
15. operator precedence
16. eliminate common subexpressions.
17. Elimination of dead code.
18. predictive parsing table
19. SLR parser program
20. Ambiguous Grammar or NOT.

LEX:

1. count t he number of characters, number of lines & number of words.
2. print all the constants
3. count the number of Macros defined and header files
4. separate keywords and identifiers.
5. adds line numbers
6. email address is valid
7. count the number of comment lines
8. mobile number is valid
9. HTML tags
10. separate the tokens in the given C program and display with appropriate caption.
11. count positive and negative numbers.
12. URL
13. validate DOB
14. frequency of the given word
15. do basic mathematical operations
16. digit or not.
17. vowels and consonants
18. the length of the longest word
19. replace a word with another word
20. Capital Letters