

Compiler and Automata Lab List:

1. Write a LEX Program to scan reserved word & Identifiers of C Language.
2. Implement Predictive Parsing algorithm.
3. Write a program to generate three address code.
4. Implement SLR(1) Parsing algorithm
5. Design LALR bottom up parser for the given language.
6. Write a program for constructing of LL (1) parsing.
7. Construction of recursive descent parsing for the following grammar
E->TE'
E'->+TE/@ "@ represents null character"
T->FT'
T'->*FT'/@
F->(E)/ID
8. Convert the BNF rules into Yacc form and write code to generate abstract syntax tree.
9. Write a program to generate machine code from the abstract syntax tree generated by the parser.
10. Write a LEX Program to convert the substring abc to ABC.
11. Write a Program to implement NFAs that recognize identifiers, constants, and operators of the mini language.
12. Write a Program to implement DFAs that recognize identifiers, constants, and operators of the mini language.
13. Write a Lex program to count the number of words, characters, blank spaces and lines.
14. Write a program to Elimination of Left Recursion in a grammar.