List of Practicals

(Compiler Design)

1. List of the compiler Designer tools and write its comparative analysis.

2. Implement following programs using Lex.

    a) Write a Lex program to print out all numbers from the given file.

    b) Write a Lex program to printout all HTML tags in file.

    c) Write a Lex program which adds line numbers to the given file and display the same onto the standard output.

    d) Write a Lex program to count the number of comment lines in a given C program. Also eliminate them and copy that program into separate file

3. Write a LEX / YACC program for Symbol Table Generation.

    This is the symbol table implementation in yacc using regular expressions, it checks for re-declaration of variables and multiple declarations of variables

4. Write a program in any language to create LL(1) Parser.

A Code that generate First() and Follow() of any Context free Grammars and then create Parsing table to trace any language constructs.

5. Write a program in Lex /Yacc to create LR(1) Parser.

    A Code that generate Shift(), Reduce(), Accept() and Error() of any Context free Grammars and then create Parsing table to trace any language constructs.

6. Write a program to generate 3 Address Code (Intermediate Representation) of any C Code.

7. Write a program to create Assembly code of a given Intermediate Representation (IR) code

8. Write a program in any language to take any C code as an input, and implement different Optimization techniques.

9. Write a program for Register Allocation.