Lab-1:

1. Write a program to count the number of characters in a given line of string using flex.

2. Write a program to implement identification of keywords, numbers, operators and identifiers using flex.

Lab-2:

1. Write a program to print all the keywords, literals, valid identifiers, invalid identifiers, integer number, real number in a given C program.

2. Write a Lex program to recognize valid arithmetic expressions and identify the identifiers and operators.

Lab-3:

1. Write a program to print all the keywords, literals, valid identifiers, invalid identifiers, integer number, real number in a given C program, example int a = b + 1c; identify each element in a given line of code. Ref:

https://www.geeksforgeeks.org/c-program-detect-tokens-c-program/

2. Write a program to implement Lexical Analyzer for the source code stored in a file

Lab-4

1. Write a program to design Finite Automata that accepts all strings ending with "ing", over $\sum$= a to z. (example "anything", "something", "nothing", etc.)

2. Write a program to check whether a given line is comment or not.

Lab-5:

1. Write a program to convert NFA into an equivalent DFA