**Problem-1**

Program a simple lexical analyzer which recognizes the following keywords (int, float, if, then, else, for, printf, switch, case, return) and integers, floating point numbers.

**Problem-2**

Program a simple lexical analyzer which recognizes all Arithmetic Operators, Relational Operators, and Logical Operators.

**Problem-3**

Program a simple lexical analyzer which recognizes all special characters and count number of uppercase and lowercase characters.

**Problem-4**

Program a simple lexical analyzer which recognizes decimal and hexadecimal numbers.

**Problem-5**

Program a simple lexical analyzer which recognizes characters, words and lines. Then print the number of characters, number of lines and the number of words in the input.

**Problem-6**

Program a simple lexical analyzer:

a) To list out all words of length three, starting with "A" to uppercase.

b) To list out all C-like comments (both single line and multiline comments) from a text file.

c) LEX to count the no of "scanf" and "printf" statement in a c program. Replace them with "writf" and "readf" respectively.

d) No of comments lines in the c file and eliminate them and save into other file.