**Problem-1**

In this assignment, your job is to 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**

In this assignment, your job is to program a simple lexical analyzer which recognizes all Arithmetic Operators, Relational Operators, and Logical Operators.

**Problem-3**

In this assignment, your job is to program a simple lexical analyzer which recognizes all special characters and count number of uppercase and lowercase characters.

**Problem-4**

In this assignment, your job is to program a simple lexical analyzer which recognizes decimal and hexadecimal numbers.

**Problem-5**

In this assignment, your job is to 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**

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