

Indian Institute of Information Technology, Nagpur
Department of Computer Science and Engineering
Session:2022-2023
Course: Compiler
VI Semester
Lab Assignment 1
Marks: 10

Deadline: Submit this assignment on or before 19/01/23.

All programs should be written in C language

1. Write a program that will count the total number of identifiers in the program and will also display the identifiers in the program. (Simulate the DFA that recognizes an identifier)
2. Write a program that counts the number of keywords in the program. Create a Symbol Table consisting of the list of C keywords and then use it in the program.
3. Write a program that counts the number constants in the program. Constant can be integer, float, character or string (literal).
4. Write a program to count the number of newlines in the program.
5. Simulate a DFA that recognizes an unsigned number.