**PSG COLLEGE OF TECHNOLOGY**

**DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCES**

**VI SEM – M.Sc SOFTWARE SYSTEMS**

**15XW66 PRINCIPLES OF COMPILER DESIGN LAB**

**WORKSEET - 1**

1. Write a C program that reads a C program file and perform the following and write it in another file.
2. Should ignore redundant spaces, tabs and new lines.
3. ignore comments.
4. Write a C program to recognize strings under 'a\*' and 'a\*b+'
5. Write a C program which reads an expression of any length, to perform encryption of the expression by replacing all the variable by “identifier”, all arithmetic operators by “AOP” and relation operators by “ROP”. Print the original and encrypted string.
6. Write a C program to convert the infix expression into postfix expression.
7. Write a C program to evaluate an arithmetic expression of any length by considering operator precedence concept.