COMPILER DESIGN LAB

WEEK 3 – EXERCISE

- 1. Write the Lex Program to find the token and its count from input file for the following.
 - a. Identifier
 - b. number
 - c. Translating all letter appearances into Capitalize each word.
 - d. Whitespace (delimiter = space / tab / newline)
 - e. Assignment symbol (:=)
 - f. Operator Symbol (+, -, *, /)

Input:

```
#define a (x +1)
int x , 2;
void b() {
        int x =1;
        printf ("%d \n ", a);
        }
void c() {
        printf("%d \n ", a);
        }
void main () {
        b ();
        c();
        }
```

- 2. Write the Lex Program to find the token and its count from input file for the following.
 - a. Keyword (if, then, else, for, while, int, float, real)
 - b. Relational operator symbol (<, <=, >, >=, <>, =)
 - c. Uppercase and Lowercase letter
 - d. Special characters (!, @, #, \$, %, ^, &, *, ())
 - e. Characters, words and lines

Input: