## COMPILER DESIGN LAB

## WEEK 4 ( 8.1.19 ) - EXERCISE

## SET - A

- 1. Write a Lex program for the following
  - a. All strings of a's and b's that contain at least two b's.
  - b. All strings of lowercase consonants.
  - c. All strings of digits with no repeated digits.
  - d. All strings of lowercase letters in which the letters in are in ascending lexicographic order.
  - e. The characters that can appear at the end of a legitimate English sentence (e.g. , exclamation point) .
  - f. Find the token and its count from the given

```
c = a++ + + +b
```

g. Identify the tokens in the given input statement

```
def f(x):
  if x >= 1:
    return x * x
else:
    return x
print 3
```

## SET - B

- 1. Write a Lex program for the following
  - a. All strings of a's and b's that contain at most two b's.
  - b. All strings of a's and b's that contain just two or three b's
  - c. All strings of lowercase letters that contain the five vowels in order.
  - d. Comments, consisting of a string surrounded by /\* and \*/, without an
    intervening \*/, unless it is inside double-qoutes(")
    Input:

- **e.** Find the tokens and its count from the given c = ++a + ++b
- f. Identify the tokens in the given input statement print ( 3 + x \*2) def f(x): return 3
- g. Find or search a pattern matching using Grep syntax to recognize the given input string is verb.