

# CS348 Assignment -3

*Kartikay Goel - 180101033*

How to run the program:

**Run the program in linux environment.**

1) Install flex using **sudo apt-install flex**

2) Three files are attached: lex.l and lex.yy.c and input.txt

To test the lexical analyser, type the following the cmd:

-> **flex 180101033\_lex.l**

-> **gcc lex.yy.c**

-> **./a.out**

The commands and the corresponding output are shown in the screenshot below:

```
krtky@krtky-G3-3579:~/Desktop/lab4$ flex lex.l
krtky@krtky-G3-3579:~/Desktop/lab4$ gcc lex.yy.c
krtky@krtky-G3-3579:~/Desktop/lab4$ ./a.out
```

Line	Token	Token Specifier
1	1	
	22	^STATS
2	2	
3	22	^SUM
	14	
	22	^SUMSQ
	14	
	22	^I
	14	
	22	^VALUE
	14	
	22	^MEAN
	14	
	22	^VARIANCE
	13	
	6	
4	3	
5	22	^SUM
	15	
	23	#0
	12	
6	22	^SUMSQ
	15	
	23	#0
	12	
7	7	
	22	^I
	15	
	23	#1
	10	
	23	#100
	11	
8	3	
9	8	
	20	
	22	^VALUE
	21	
	12	
10	22	^SUM
	15	
	22	^SUM
	16	
	22	^VALUE
	12	
11	22	^SUMSQ
	15	
	22	^SUMSQ
	16	
	22	^VALUE
	18	
	22	^VALUE
12	4	

12	4	
	12	
13	22	^MEAN
	15	
	22	^SUM
	19	
	23	#100
	12	
14	22	^VARIANCE
	15	
	22	^SUMSQ
	19	
	23	#100
	17	
	22	^MEAN
	18	
	22	^MEAN
	12	
15	9	
	20	
	22	^MEAN
	14	
	22	^VARIANCE
	21	
16	5	