

Write a (LEX/YACC, C/C++,
JAVA, Python) program to
generate three address code
for the simple expression.

Assignment No. 5

Sample Input :

$$A = S - F * 100$$

■ Sample Output :

■ $T1 = F * 100$

■ $T2 = S - T1$

■ $A = T2$

Sample Input : $a := b^* - c + b^* - c$

■ Sample Output :

$t_1 := -c$

$t_2 := b * t_1$

$t_3 := -c$

$t_4 := b * t_3$

$t_5 := t_2 + t_4$

$a := t_5$

Sample Input :

if (a < b)

a = a - c;

30-Oct-20

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1) t1 = a < b

2) if t1 goto (4)

3) Goto(6)

4) t2 = a - c

5) a = t2

6) _____

Sample Input :

if (a < b + c)

 a = a - c;

c = b * c;

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1) t1 = b + c

2) t2 = a < t1

3) if t2 goto (5)

4) goto (7)

5) t3 = a - c

6) a = t3

7) t4 = b * c

8) c = t4