

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**Compiler Lab – UCS 1602**

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**Programming Assignment-7- Generate intermediate code using Lex and Yacc Tools**

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Develop an intermediate code generator to generate three address code for the following statements by writing suitable syntax directed translation rules

1. Assignment statements
2. Boolean expressions

**INPUT**

a := b \* -c + b \* -c

x:= a<b or c<d and e<f

**OUTPUT**

t1 = -c

t2 =b\*t1

t3 = -c

t4 = b\* t3

t5=t2 + t4

a=t5

100: if a<b goto 103

101: t1 := 0

102: goto 104

103: t1 := 1

104: if c<d goto 107

105: t2 := 0

106: goto 108

107: t2 := 1

108: if e<f goto 111

109: t3 := 0

110: goto 112

111: t3 := 1

112: t4 := t2 and t3

113:  $t5 := t1 \text{ or } t4$

114:  $x = t5$