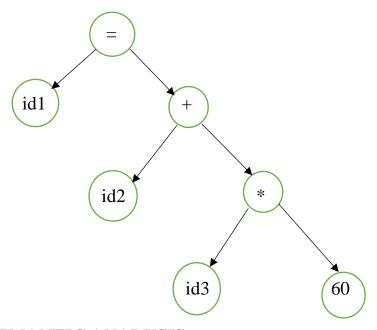
COMPILER DESIGN

ASSIGNMENT-2

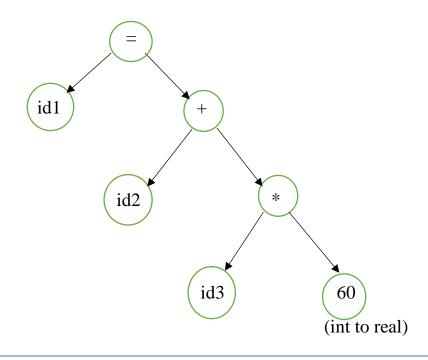
- 1. pos=initial + rate*60. Assuming all are real.
 - LEXICAL ANALYSIS:

id1=id2+id3*60

• SYNTAX ANALYSIS:



• SEMANTIC ANALYSIS:





• INTERMEDIATE CODE GENERATION:

t1=int-to-real(60)

t2=id3*t1

t3=id2+t2

id1=t3

• **CODE OPTIMIZATION**:

t1=id3*60.0

id1=id2+t2

• CODE GENERATION:

MOVF id3,R2

MULF #60.0,R2

MOVF id2,R1

ADD R1,R2

MOVF R1,id1