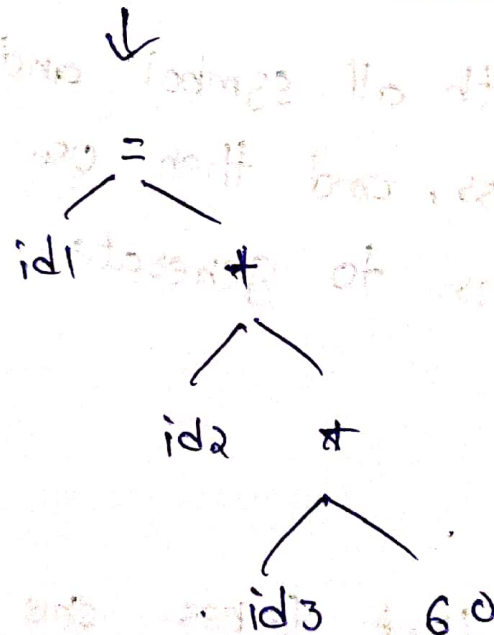


6) Position = initial + rate \* 60

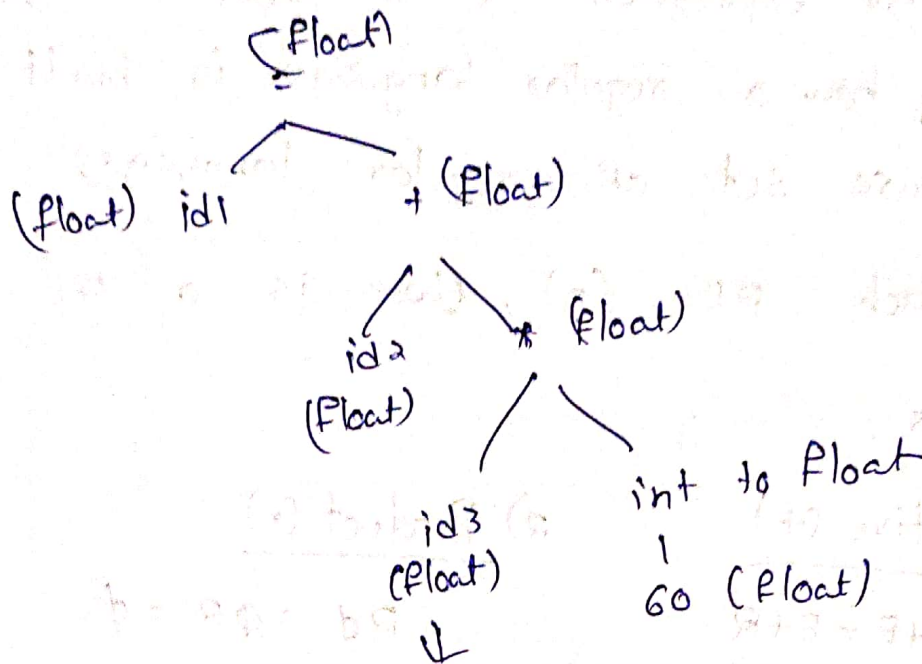
↓  
**lexical analyse**

id1 = id2 + id3 \* 60

↓  
**syntax analyses**



# Semantic Analyse



## Intermediate code generator

$t1 = \text{int to float}(60)$

$t2 = \text{id3} * t1$

$t3 = \text{id2} + t2$

$\text{id1} = t3$

## code optimization

$t2 = \text{id3} * 60$

$\text{id1} = \text{id2} + t2$

## code Generator

MOV F  $\text{id3}$ , R1

MUL F  $\$60.0$ , R1

MOV F  $\text{id2}$ , R2

ADD F R2, R1

MOV R1,  $\text{id1}$