

6) Position = initial + date * 60



lexical analyse

id1 = id2 + id3 * 60



syntax analyse



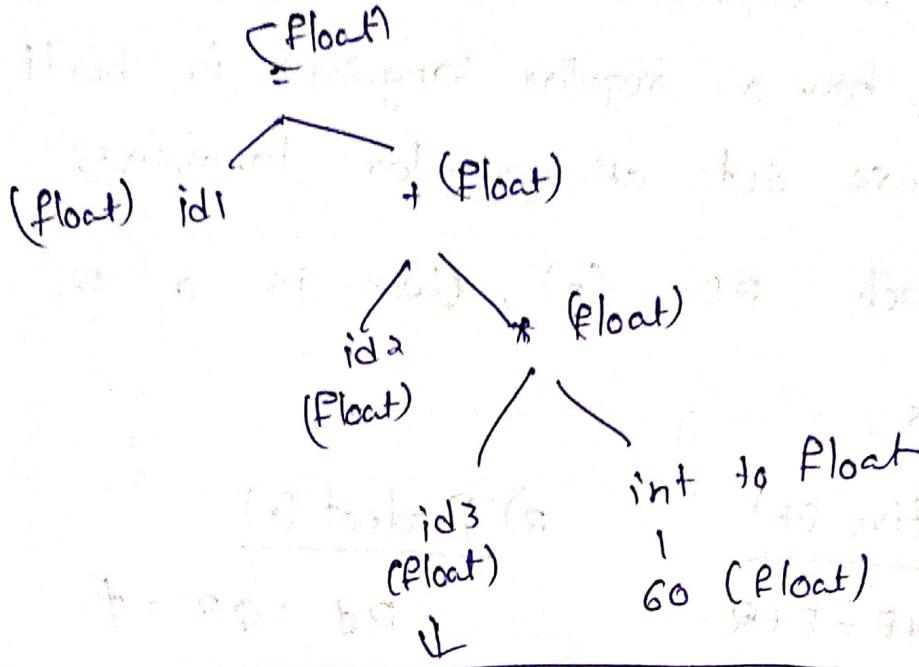
id1 = id2 + id3 * 60

id2 +

id3 *

60

Sematic Analyse



Intermediate code generator

$t_1 = \text{int to float } (60)$

$t_2 = \text{id}_3 * t_1$

$t_3 = \text{id}_2 + t_2$

$\text{id}_1 = t_3$

code optimization

$t_2 = \text{id}_3 * 60$

$\text{id}_1 = \text{id}_2 + t_2$

code Generator

MOVF id3, R1

MULF \$60.0, R1

MOVF id2, R2

AddF R2, R1

MOV R1, id1