**COMPILER DESIGN**

**ASSIGNMENT-2**

1. **pos=initial + rate\*60. Assuming all are real**.

* **LEXICAL ANALYSIS**:

id1=id2+id3\*60

* **SYNTAX ANALYSIS**:

=

id1 +

id2 \*

id3 60

* **SEMANTIC ANALYSIS**:

=

id1 +

id2 \*

id3 60

(int to real)

* **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