**COMPILER DESIGN**

**EXP 4(a) – ELIMINATION OF LEFT RECURSION FROM CFG**

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**Aim:** To perform elimination of left recursion from context free grammar

**Language Used: Python**

**Procedure:**

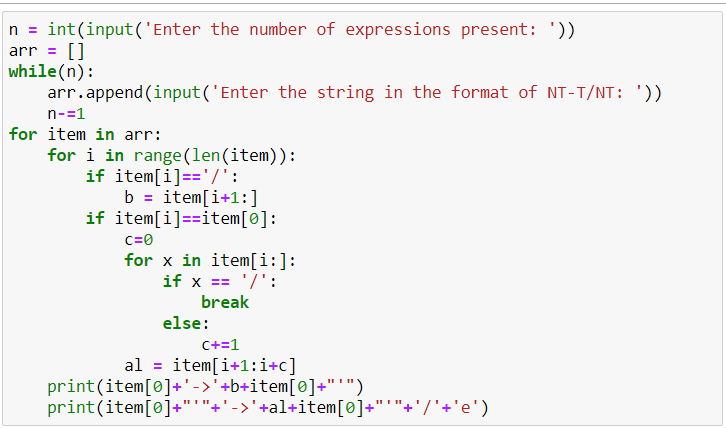
1. Create a python file
2. Take in the input of statements present in the grammar
3. Remove left recursion present in the statements by following the rules

If **A->Ax |b** (x = alpha, b = beta) is statement

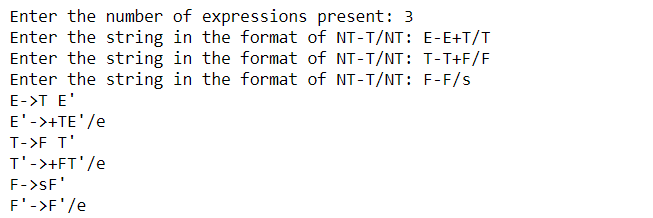
* A->bA’
* A’ = xA’|e (These both are the statements after removing left recursion)

**4.** Then print the statements after conversion.

**Code:**



**Output:**



**Conclusion: Left recursion is being removed from the given CFG.**