Assignment 1: COL703

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Precedence grammar rule (for OR,AND operator):-

(suppose AND operator has higher precedence order than OR, then rule would be the following)

Left associativity grammar rule (for OR, AND operator) :-

Now, Whole Grammar Rule :-

Terminal :- AND, FALSE, TRUE, SEMI, EOF, OR, NOT, LPAREN, RPAREN, IF, THEN, ELSE, IFF, ATOM

Non-terminal :- EXP, START, TERM, TERM2, TERM3

Rule:-

```
START ::= EXP | epsilon (empty)

EXP ::= TERM3 | IF TERM3 THEN EXP | TERM3 IFF EXP | IF TERM3 THEN EXP ELSE TERM3

TERM3 ::= TERM2 | TERM3 OR TERM2

TERM2 ::= TERM | TERM2 AND TERM

TERM ::= ATOM | TRUE | FALSE | NOT EXP | (EXP)
```

Command for running program:

\$ sml execute.sml <input_filename_txt> <output_file_txt>