**PARSER CFG:**

**Our Parser works on this CFG and it is handling all the cases and nested whiles and nested ifs too (BONUS)**

PARSER -> DL

DL -> VD|FD

VD -> T BR id

FD -> DEF id (VDL) { IS}

VDL -> ^

VDL -> VD|VD,

VDL -> VD, VD

IS -> while IS CS| if IS else IS CS| S

S-> VD

S-> id =E

S-> if CS S else S

S-> while CS{S}

E -> id| num | id+id | id+num | num+id | num+num

CS-> id RO id | num RO num | id RO num | num RO id

BR -> [E1]

E1 - > E | ^

T-> INT | char