## **A1 Batch Macro Processor**

Implement a macro-processor which expands the macro invocations by substituting the macro's definition. Create tables like NAMTAB, DEFTAB and ARGTAB. Call Assembler function in turn to produce the object codes by creating all relevant tables.

Modify the algorithm to implement independent feature:

## **Conditional Macro Expansion**

## Input:

COPY START 0 ALPHA WORD 5 BETA WORD 10 GAMMA RESW 1 TEN WORD 10 ADDS MACRO &A1, &A2 STA &A1 IF (&A1 EQ 5) ADD &A2 **ENDIF** STA GAMMA **MEND** . Main Program FIRST STL RETADR LDA LENGTH ADDS ALPHA, BETA LDA ALPHA ADD FIVE STA ALPHA ADDS TEN, BETA **RETADR RESW 1** LENGTH WORD 100 FIVE WORD FIVE **END FIRST**