Exercise 3: Generate a SIC object program

Translate the following SIC program into an object program. Your answer should contain information like figure 2.2 and figure 2.3 of our text book.

SUM        START    1FF

FIRST      LDX      ZERO

            LDA      ZERO

LOOP      ADD    TABLE,X

              TIX      COUNT

              JLT        LOOP

              STA      TOTAL

              RSUB

TABLE      RESW      200

COUNT    RESW      1

ZERO        WORD    0

TOTAL      RESW      1

END    LOOP