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1   ;EXPERIMENT: 1B
2   ;Write an ALP to move a block of N byte of data fron source to destination.
3   ;Assume that length of block is stored in R2 of bank 0. The source clock starts
4   ;from memory location 0x40 and destination block begins from memory location 0x3000.
5   ;Name: Anil Rajpurohit, Roll No: 312046, Batch - B2
6   ;D.O.P - 4/7/18
7
8       ORG 0000H
9       MOV R0, #40H    ;R0 acts as source for data block
10      MOV DPTR,#3000H ;DPTR acts as destination for data block
11
12      MOV R2,#05H     ;Length of data block is stored in R2
13
14  L1:                 ;Loop for transfering data one by one
15      MOV A,@R0       ;moving byte from source R0 to accumalator
16      MOVX @DPTR,A    ;moving byte from accumalator R0 to destination
17      INC R0          ;increment source R0 pointer
18      INC DPTR        ;increment destination DPTR Pointer
19      DJNZ R2,L1      ;decrement the counter R3 and repeat the loop
20
21      END
```