

;Sixteen bit data are stored in two tables starting at 8040H and 8060H having ten data each. Write an 8085 program to store the sum in the corresponding index of the third table starting at 8080H. (Assume the sum will not exceed 16 bit).

**LXI B,8040H
LXI D,8060H
LXI H,8080H**

**L1: STC
CMC
LDAX B
MOV B,A
LDAX D
ADD B
MOV B,E ;Due to limited no of registers
MOV E,L
STAX D
MOV E,B ;Copy back original contents
MVI B,80H**

**INR C
INR E
INR L**

**LDAX B
MOV B,A
LDAX D
ADC B
MOV B,E ;Due to limited no of registers
MOV E,L
STAX D
MOV E,B ;Copy back original contents
MVI B,80H**

**INR C
INR E**

INR L

MOV A,C
CPI 60H

JNC L2
JMP L1

L2: JZ L3
JMP L1

L3: HLT