5. Write an assembly language program for multiplication of two 8-bit data A7 A6 A5 A4 A3 A2 A1 A0 and B7 B6 B5 B4 B3 B2 B1 B0 using 8085 processor.

MVI D,00

MVI A,00

LXI H,4150

MOV B,M

INX H

MOV C,M .

LOOP: ADD B

JNC NEXT

INR D

NEXT: DCR C

JNZ LOOP

STA 4152

MOV A, D

STA 4153

HLT

