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.

Program:

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

Output:

