7. Write an assembly language program for multiplying two 16-bit data using 8086 processor.

Program:

LHLD 0003

SPHLB

LHLD 0005

XCHG

MVI A,00

LXI H,0000

LXI B,0000

LOOP1 : DAD SP

JNC LOOP2

INX B

LOOP2 : DCX D

CMP E

JNC SKIP

CMP D

SKIP : JNZ LOOP1

SHLD 0008

MOV H,B

MOV L,C

SHLD 0010

STOP : HLT

