EXPERIMENT -3

AIM: To find the determinant of 2 X 2 Matrix.

MATRIX:

[AB AA] [BB FF]

CODE:

ORG 0000H

MOV R0,#10H

MOV R1,#13H

MOV A,@R0

MOV B,@R1

MUL AB

MOV R2,B

MOV R3,A

INC_{R0}

DEC_{R1}

MOV A,@R0

MOV B,@R1

MUL AB

MOV R4,A

CLR C

MOV A,R3

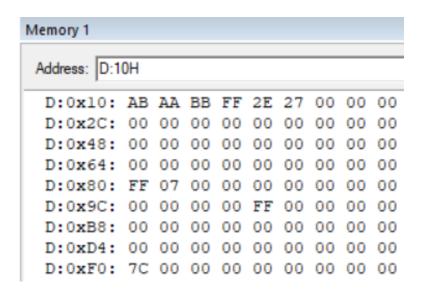
SUBB A,R4

MOV R3,A
MOV A,R2
SUBB A,B
MOV R2,A
MOV R0,#14H
MOV A,R2
MOV @R0,A
INC R0
MOV A,R3
MOV @R0,A
END

INPUT:

Memory 1						
Address: D:10H						
D:0x10:	AB	AA	BB	FF	00	00
D:0x34:	00	00	00	00	00	00
D:0x58:	00	00	00	00	00	00

OUTPUT:



RESULT:

Determinant of above matrix is: (2E27)H