EXPERIMENT -3

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

MATRIX:

[AB AA] [BB FF]

CODE:

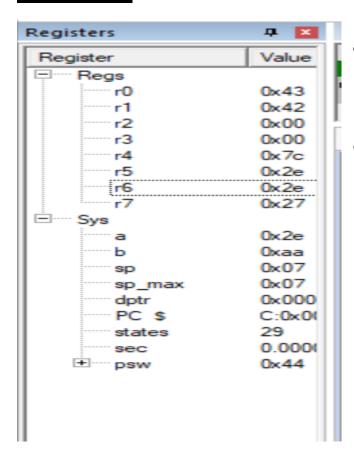
```
matrix det.s*
  1 ORG 0000H
  2 MOV RO, #40H
  3 MOV R1, #41H
  4 MOV B, @R1
  5 INC R1
  6 MOV A, @R1
  7 MUL AB
  8 MOV R5, A
  9 MOV R4, B
 10 MOV B, @RO
 11 INC RO
 12 INC R0
 13 INC R0
 14 MOV A, @RO
 15 MUL AB
 16
 17 CLR C
 18 SUBB A, R5
 19 MOV R7, A
 20 MOV A, B
 21 SUBB A, R4
 22 MOV R6, A
 23 END
```

INPUT:

```
Address: D:0X40

D:0x40: AB AA BB FF 00
D:0x5B: 00 00 00 00 00
D:0x76: 00 00 00 00 00
```

OUTPUT:



RESULT:

Determinant of above matrix is:(2E27)H in the register r6 and r7.