EXPERIMENT - 5

AIM:- To count the frequency of a number in an array of numbers of size 10 stored in memory locations.

CODE-

ORG 0000H

MOV R0,#40H

MOV R2,#00H //R2 IS FOR COUNTING

MOV R3,#0AH

LOOP2:MOV A,@R0

CJNE A,#02H,LOOP1

INC R2

INC_{R0}

DJNZ R3,LOOP2

LOOP1: INC RO

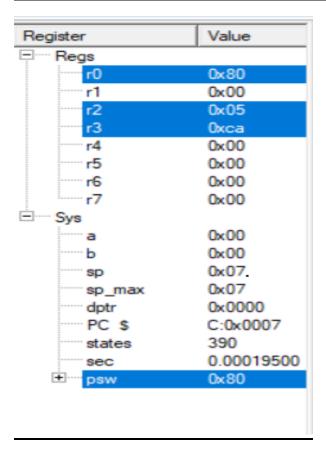
DJNZ R3,LOOP2

END

INPUT-

Address: D:0X40											
D:0x40:	01	02	02	03	04	05	02	08	02	02	00
D - AFD -	00	^^	^^	^^	^^	^^	^^	^^	^^	^^	00

OUTPUT- (FREQUENCY OF 2)



CONCLUSION- Register R2 is for counting. Hence frequency of 2 is stored in R2 which is 5.