

PRACTICAL – 21

AIM: Multiply two 8-bit numbers stored in memory locations 4001H and 4006H by repetitive addition and store the result at 400AH location.(Use Data Set -3) (Note: Student need to implement FOR loop in this program: initialization, Compare, Decrement/Increment; also need to use JMP, JNx instructions.)

CODE:

org 100h

MOV [4001H],05H

MOV [4006H],04H

MOV CL,[4006H]

MOV BL,[4001H]

ABC:

ADD [400AH],BL

LOOP ABC

ret

OUTPUT:

Random Access Memory

0700:400A

update

☒ table

☐ list

0700:400A	14	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	91.....
0700:401A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0700:402A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0700:403A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0700:404A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0700:405A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0700:406A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0700:4070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

CONCLUSION: We have learned about how to multiply two 8-bit numbers stored in memory locations 4001H and 4006H by repetitive addition and store the result at 400AH location.