

## PRACTICAL – 20

**AIM:** Modify above the program such a way that it halts the execution if carry generated & stores the intermediate result at 400AH location. (Data set-2)  
(Note: Student need to implement FOR loop in this program: initialization, Compare, Decrement/Increment; also need to use JMP, JMx instructions.)

### **CODE:**

org 100h

MOV [4000H],12H

MOV [4001H],13H

MOV [4002H],10H

MOV [4003H],09H

MOV [4004H],08H

MOV SI,4000H

MOV CX,5

ABC:

MOV AL,[SI]

ADD [400AH],AL

JC QUIT

INC SI

LOOP ABC

QUIT:

ret

### OUTPUT:

Random Access Memory																— □ ×	
0700:400A		update		<input checked="" type="radio"/> table		<input type="radio"/> list											
0700:400A	46	00	00	00	00	00	00	00	00	00	00	00	00	00	00	F	.....
0700:401A	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		.....
0700:403A	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		.....
0700:405A	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		.....
0700:407A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		.....

**CONCLUSION:** In this practical we learned about if carry generated & stores the intermediate result at given location.