PRACTICAL – 8

AIM:

Add Two 32-bit numbers stored in consecutive memory locations and store the result in memory locations starting from 7000H

CODE:

ORG 100H

MOV [7000H], 7615H

MOV [7002H], 1495H

MOV [7004H], 1515H

MOV [7006H], 1313H

MOV AX, [7000H]

MOV BX, [7002H]

MOV CX, [7004H]
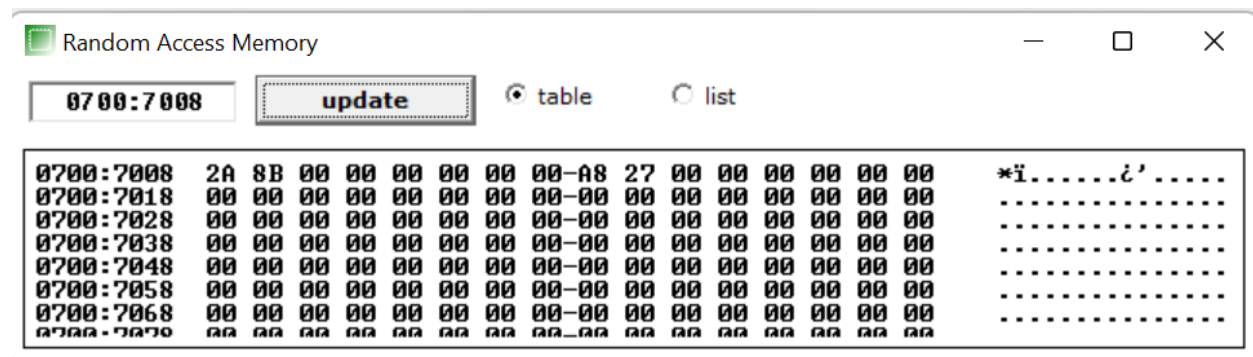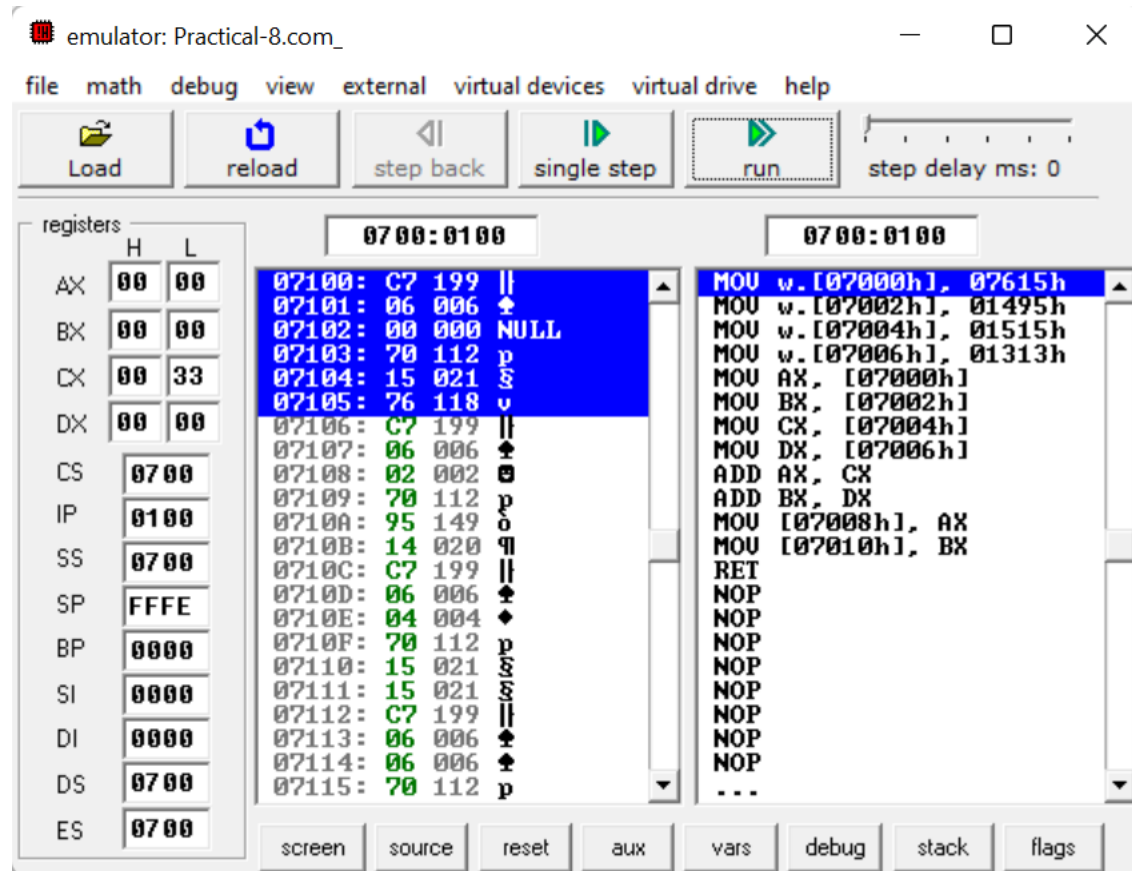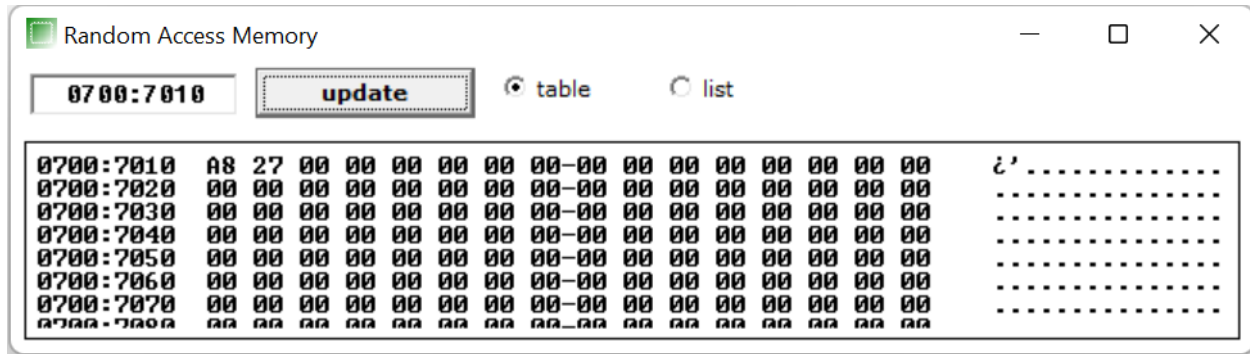
MOV DX, [7006H]

ADD AX,CX

ADD BX,DX

MOV [7008H], AX

MOV [7010H], BX

RET

OUTPUT:

Random Access Memory   —   □   ✕

```
0700:7010      update      ⦿ table    ○ list

0700:7010   A8 27 00 00 00 00 00 00-00 00 00 00 00 00 00 00   ¿'..............
0700:7020   00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00   ................
0700:7030   00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00   ................
0700:7040   00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00   ................
0700:7050   00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00   ................
0700:7060   00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00   ................
0700:7070   00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00   ................
0700:7080   00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00
```

CONCLUSION: In this practical we learnt how to add two 32 bit number in consecutive memory location.