PRACTICAL – 9

AIM:

Subtract 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]

SUB AX,CX
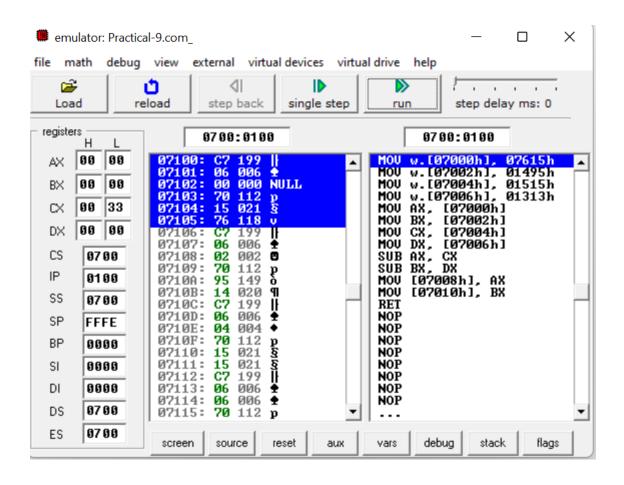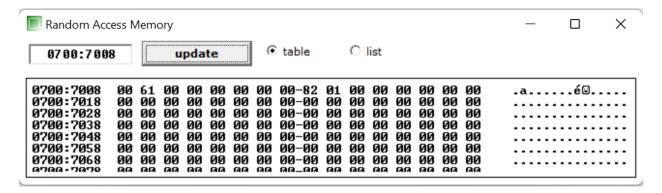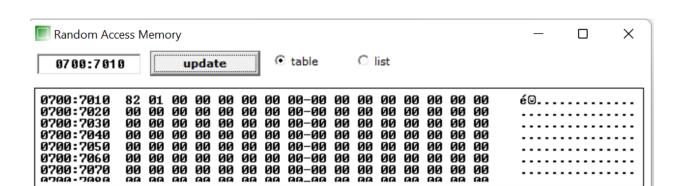
SUB BX,DX

MOV [7008H], AX

MOV [7010H], BX

RET

OUTPUT:

Random Access Memory   — □ ×

```
0700:7010     update     ⊙ table    ○ list
```

```
0700:7010  82 01 00 00 00 00 00 00-00 00 00 00 00 00 00 00  é☺..............
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 subtract two 32 bit number in consecutive memory location.