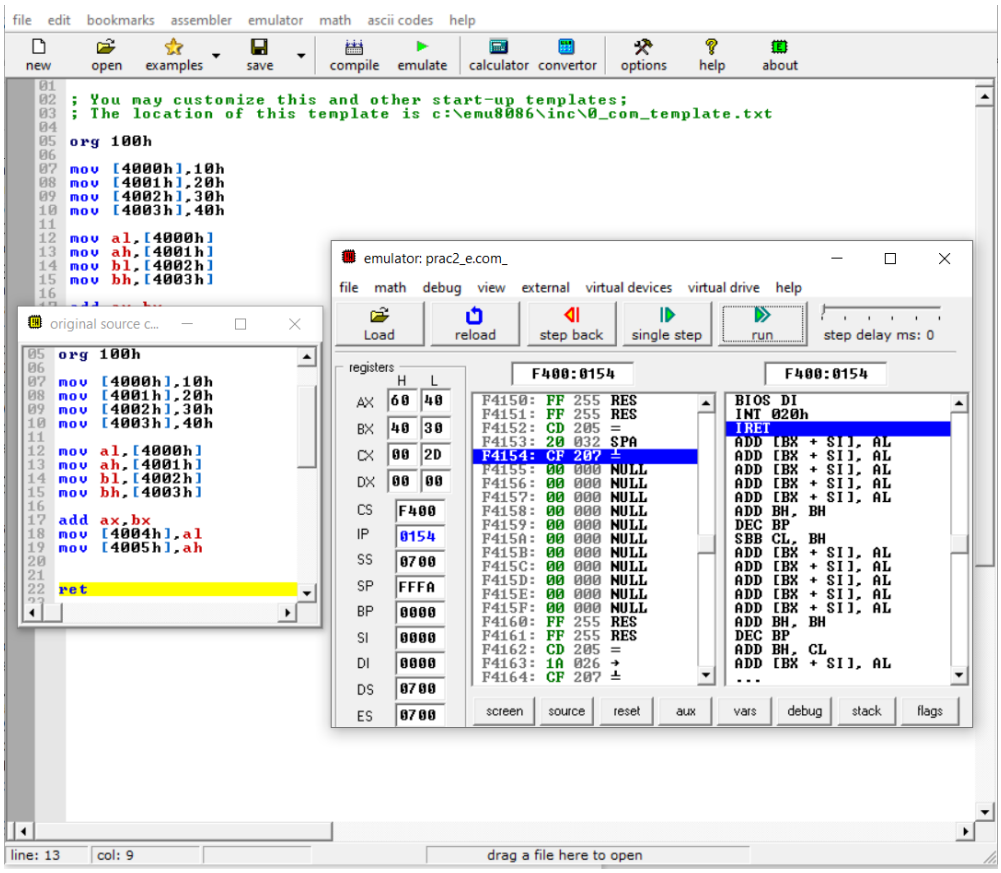
PRACTICAL: 2(B5)

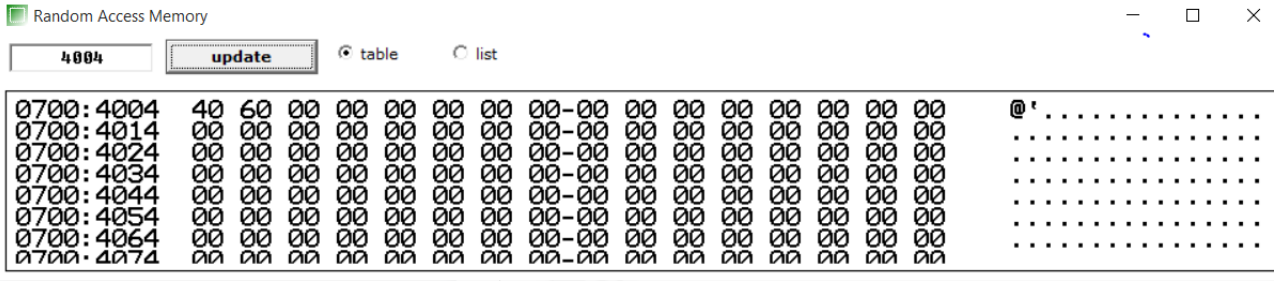
AIM: Add the 16-bit number in memory locations 4000H and 4001H to the 16-bit number in memory locations 4002H and 4003H. The most significant eight bits of the two numbers to be added are in memory locations 4001H and 4003H. Store the result in memory locations 4004H and 4005H with the most significant byte in memory location 4005H.

CODE:

```
org 100h

mov [4000h],10h
mov [4001h],20h
mov [4002h],30h
mov [4003h],40h

mov al,[4000h]
mov ah,[4001h]
mov bl,[4002h]
mov bh,[4003h]

add ax,bx
mov [4004h],al
mov [4005h],ah


ret
```

OUTPUT:





CONCLUSION:

We learned about ADC command and its implementation for 16-Bit Numbers.