

## PRACTICAL: 3(C11)

**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, JMx instructions.)

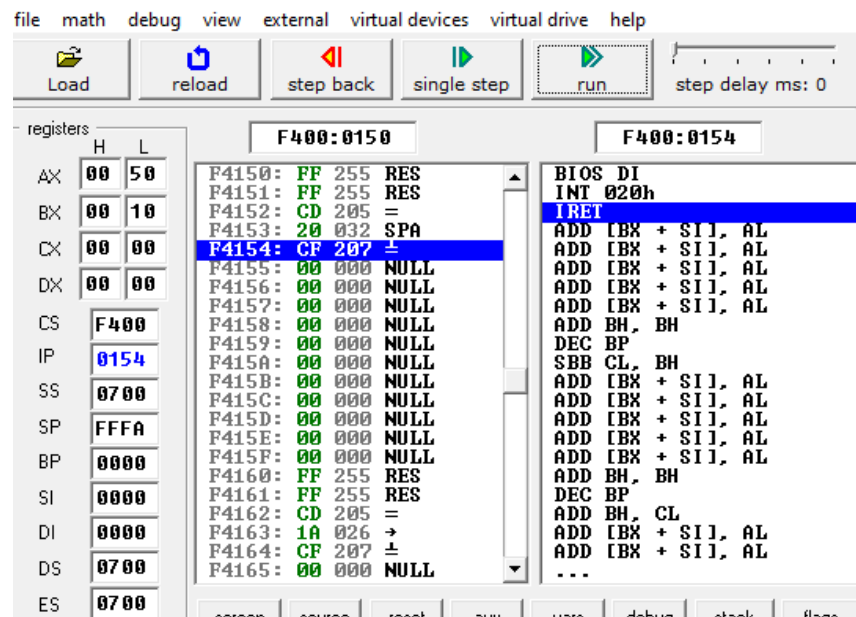
### CODE:

```
org 100h
MOV [4001h],10h
mov bl,[4001h]
mov [4000h],0h
```

```
MOV cl,0005h
MOV al,[4000h]
l1:
add al,bl
loop l1
```

```
ret
```

### OUTPUT:



### CONCLUSION:

I learned how to use loop concept.

## PRACTICAL: 3(C12)

**AIM:** Program to find average of n numbersorg 100h

**CODE:**

```
mov [4001h],1h
mov [4002h],2h
mov [4003h],3h
mov [4004h],4h
mov [4005h],5h
```

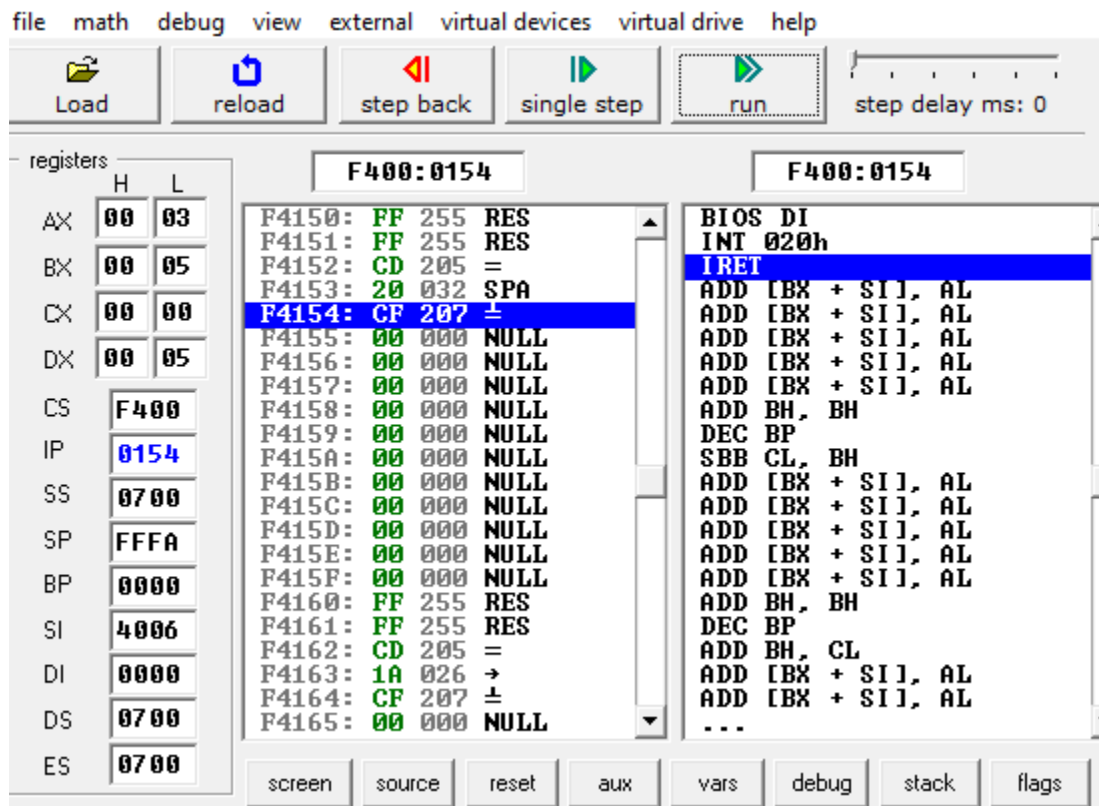
```
mov si,4001h
mov al,0h
mov cl,5h
mov dl,5h
```

```
l1:
mov bl,[si]
add al,bl
inc si
loop l1
```

```
div dl
```

```
mov [6000h],al
```

```
ret
```

**OUTPUT:****CONCLUSION:**

I learned how to use loop concept using Source index.

## PRACTICAL: 3(C13)

**AIM:** Write an assembly language program to find the no. of odd numbers and even numbers, given an array of n numbers.

### CODE:

```
org 100h

mov [6000h], 01h
mov [6001h], 02h
mov [6002h], 03h
mov [6003h], 04h
mov [6004h], 05h
mov SI, 6000h
mov cl, 05h
mov dl, 00h
l1:
mov al, [SI]
INC SI
shr al, 1
JNC even
INC dl
even:
loop l1
mov [400Ah], dl
```

