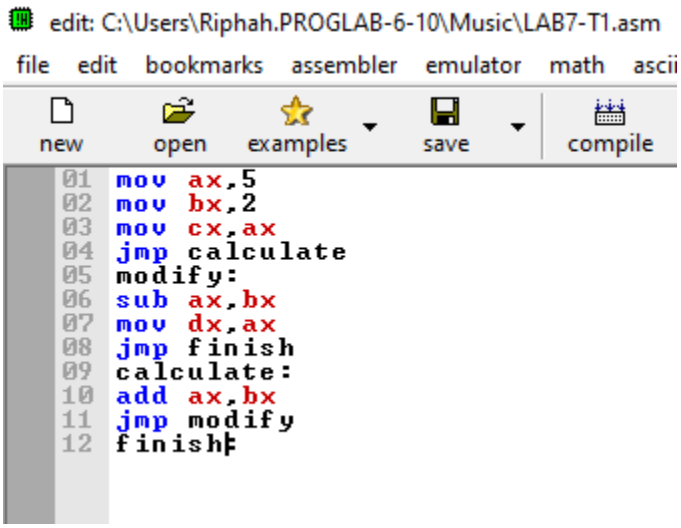
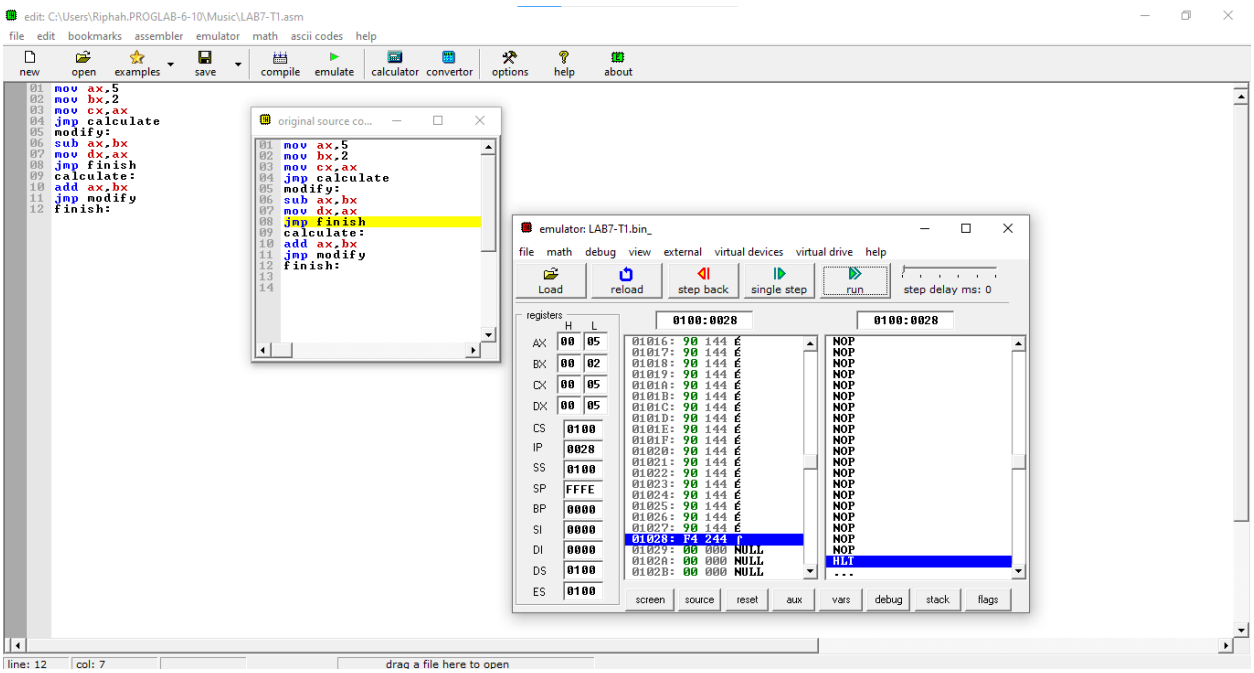
LAB 07 – TASKS – 67005 – Saghir Ali – AI 3-1

TASK 01:





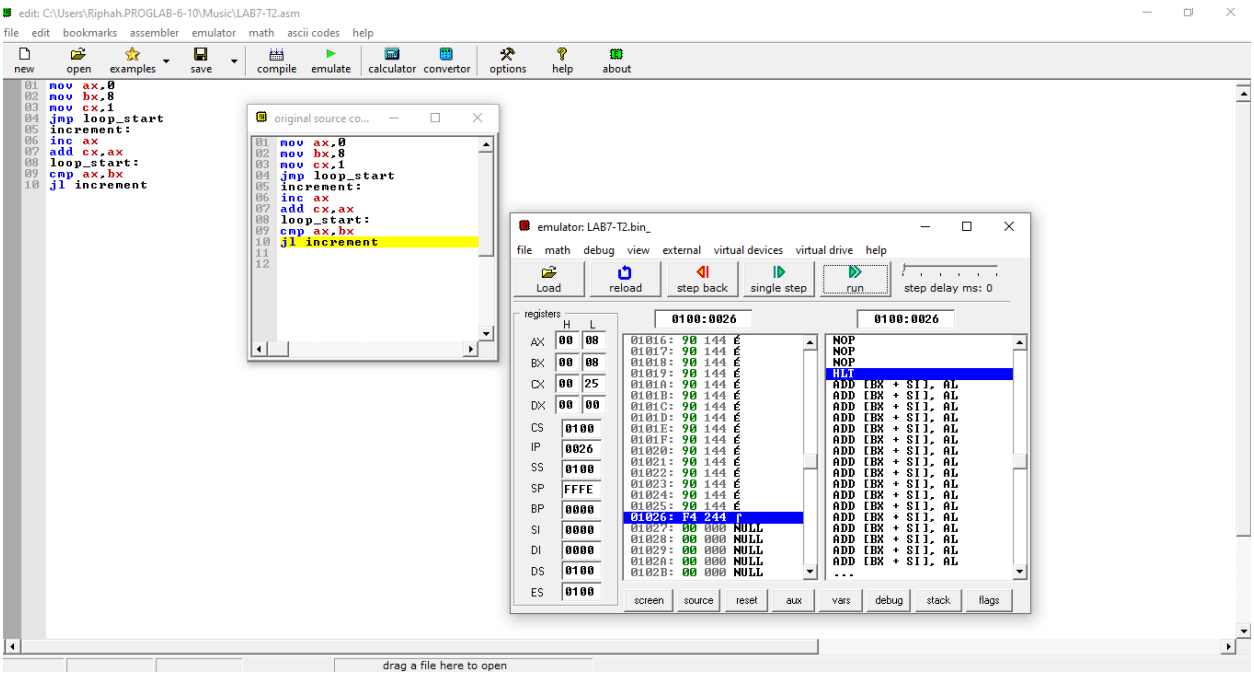
TASK 02:

edit: C:\Users\Riphah.PROGLAB-6-10\Music\LAB7-T2.asm

file edit bookmarks assembler emulator math ascii codes hel

new open examples save compile emulate

```
01 mov ax,0
02 mov bx,8
03 mov cx,1
04 jmp loop_start
05 increment:
06 inc ax
07 add cx,ax
08 loop_start:
09 cmp ax,bx
10 jl increment
```



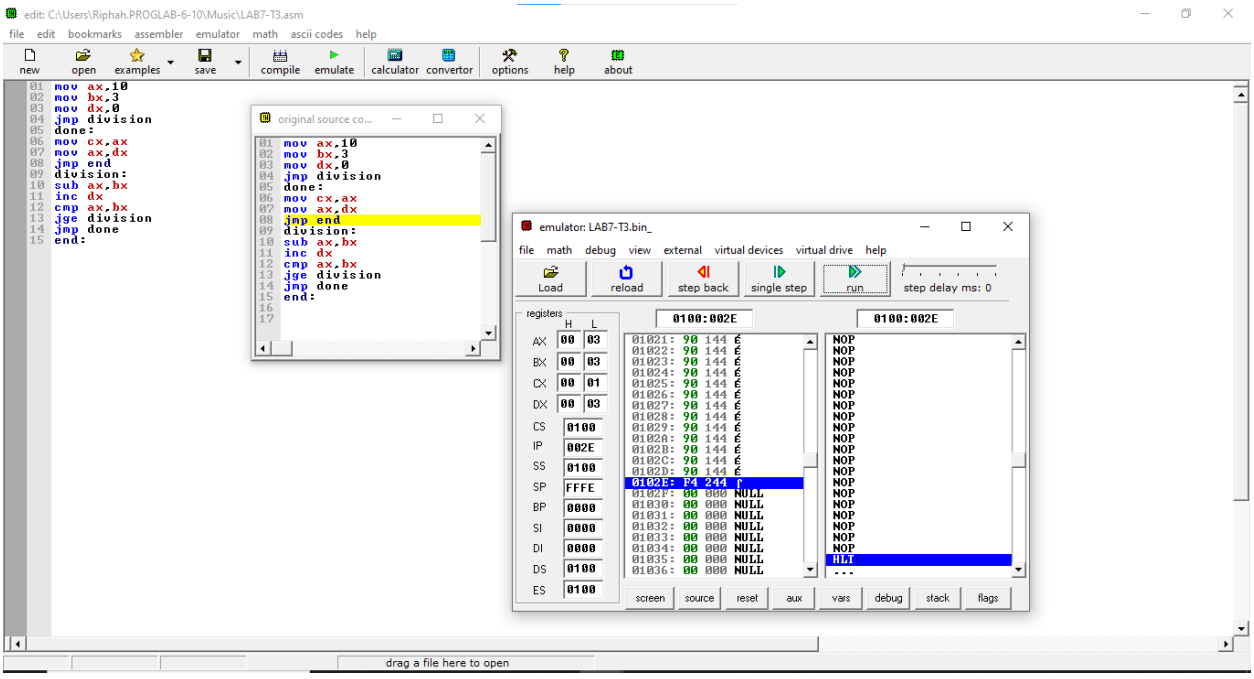
TASK 03:

edit: C:\Users\Riphah.PROGLAB-6-10\Music\LAB7-T3.asm

file edit bookmarks assembler emulator math ascii codes h

new open examples save compile emulate

```
01 mov ax,10
02 mov bx,3
03 mov dx,0
04 jmp division
05 done:
06 mov cx,ax
07 mov ax,dx
08 jmp end
09 division:
10 sub ax,bx
11 inc dx
12 cmp ax,bx
13 jge division
14 jmp done
15 end:
```



TASK 04:

edit: C:\Users\Riphah.PROGLAB-6-10\Music\LAB7-T4.asm

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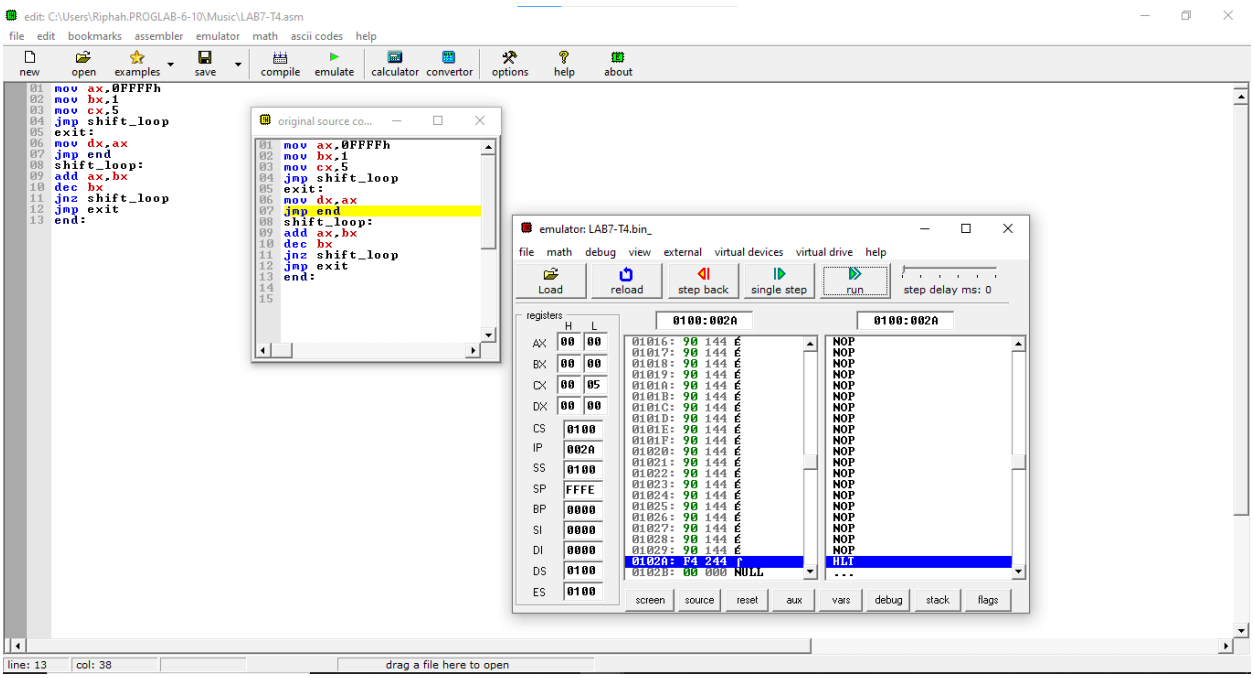
new open examples save compile emulate calculator

```
01  mov ax,0FFFFh
02  mov bx,1
03  mov cx,5
04  jmp shift_loop
05  exit:
06  mov dx,ax
07  jmp end
08  shift_loop:
09  add ax,bx
10  dec bx
11  jnz shift_loop
12  jmp exit
13  end:
```



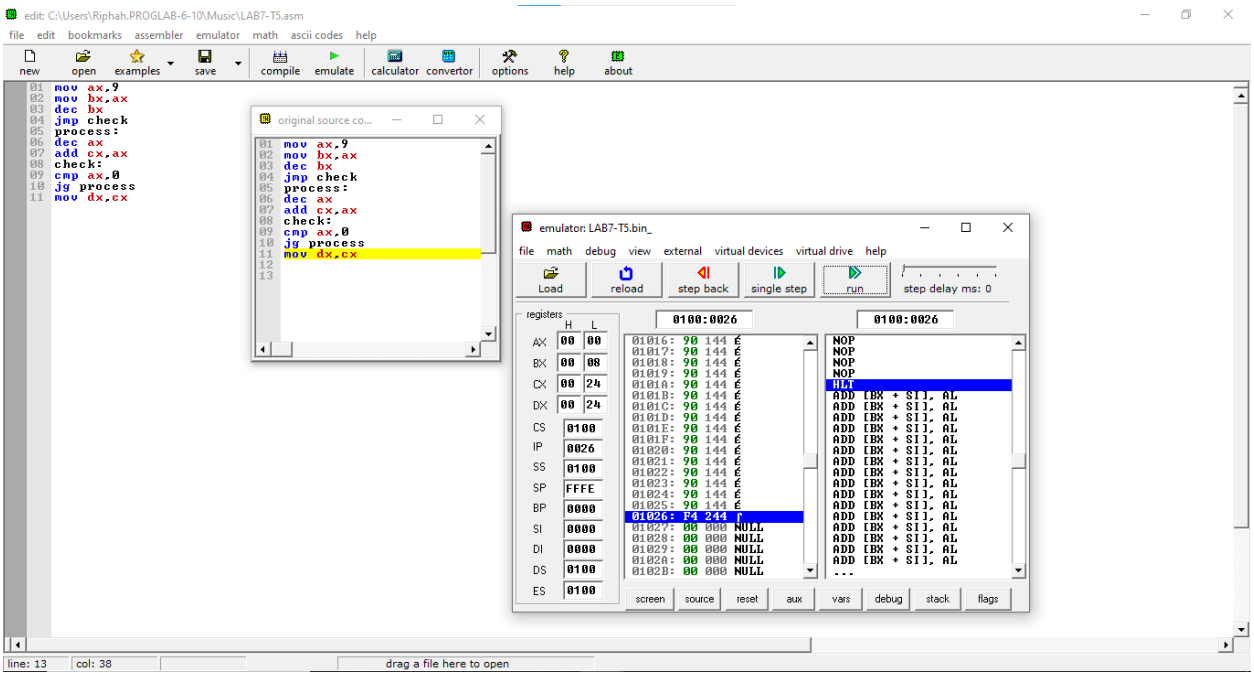
TASK 05:

edit: C:\Users\Riphah.PROGLAB-6-10\Music\LAB7-T5.asm

file edit bookmarks assembler emulator math ascii codes help

new open examples save compile emulate calculator

```
01  mov ax,9
02  mov bx,ax
03  dec bx
04  jmp check
05  process:
06  dec ax
07  add cx,ax
08  check:
09  cmp ax,0
10  jg process
11  mov dx,cx
```



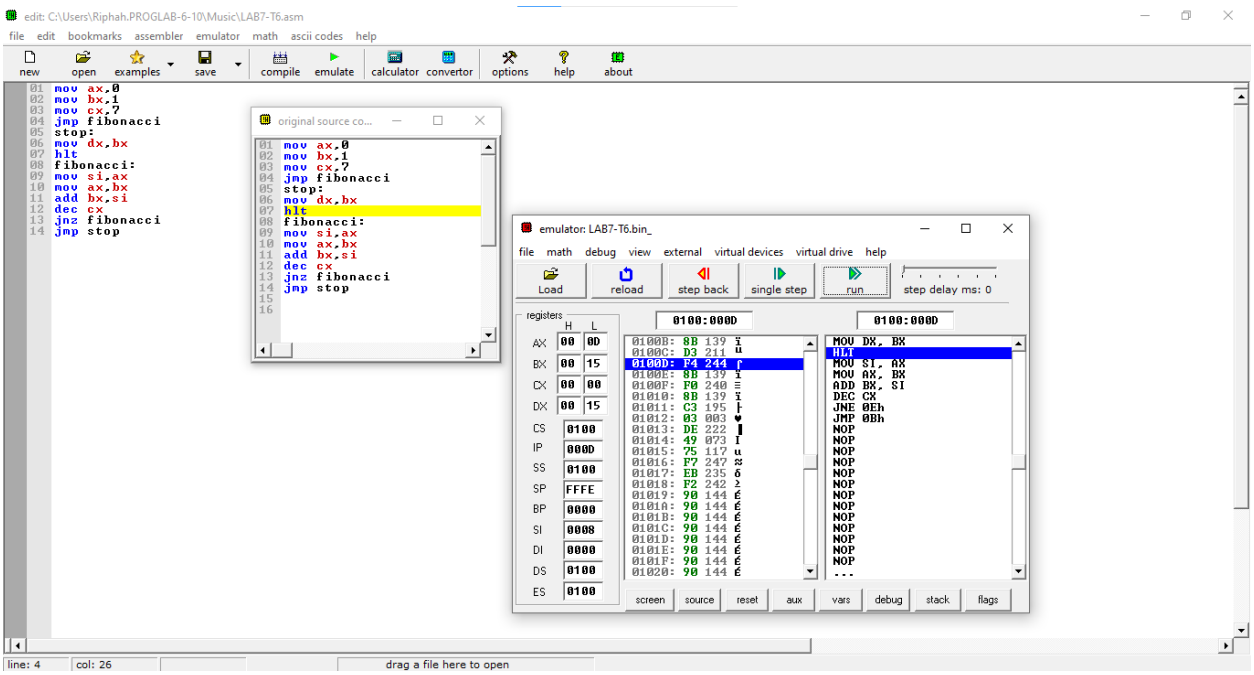
TASK 06:

edit: C:\Users\Riphah.PROGLAB-6-10\Music\LAB7-T6.asm

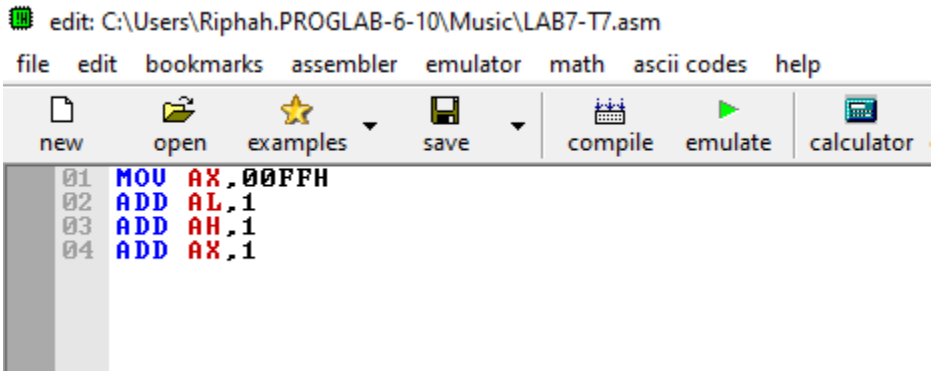
file edit bookmarks assembler emulator math ascii codes help

new open examples save compile emulate calculator c

```
01  mov ax,0
02  mov bx,1
03  mov cx,7
04  jmp fibonacci
05  stop:
06  mov dx,bx
07  hlt
08  fibonacci:
09  mov si,ax
10  mov ax,bx
11  add bx,si
12  dec cx
13  jnz fibonacci
14  jmp stop
```



TASK 07: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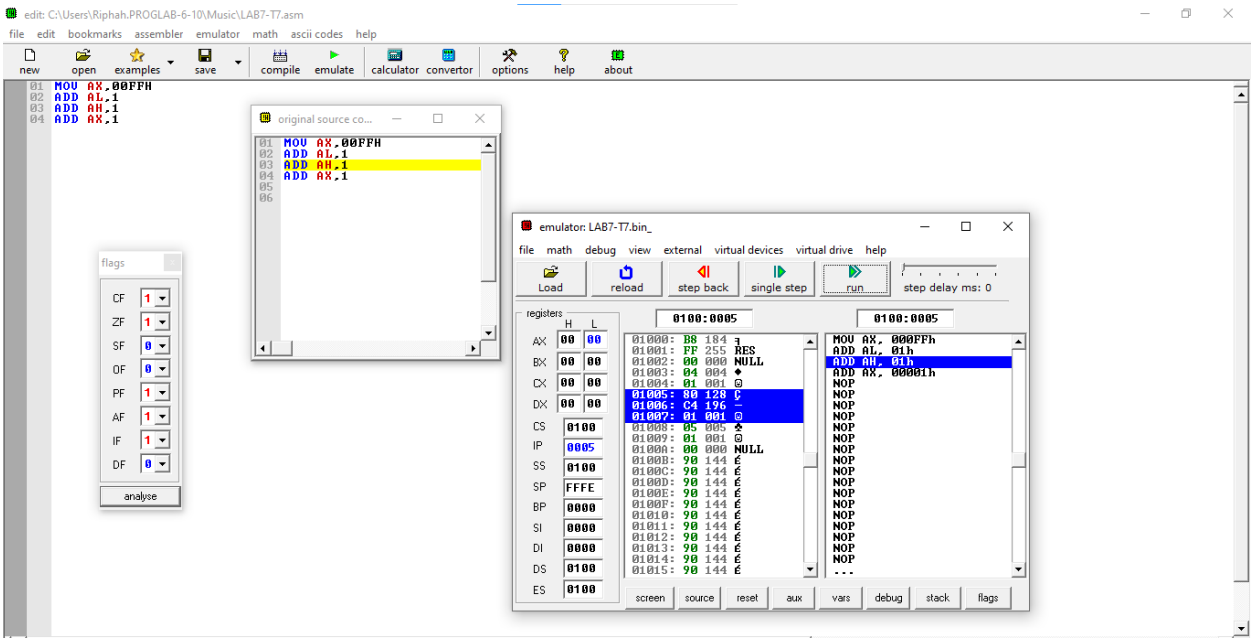
01 MOV AX,00FFH
02 ADD AL,1
03 ADD AH,1
04 ADD AX,1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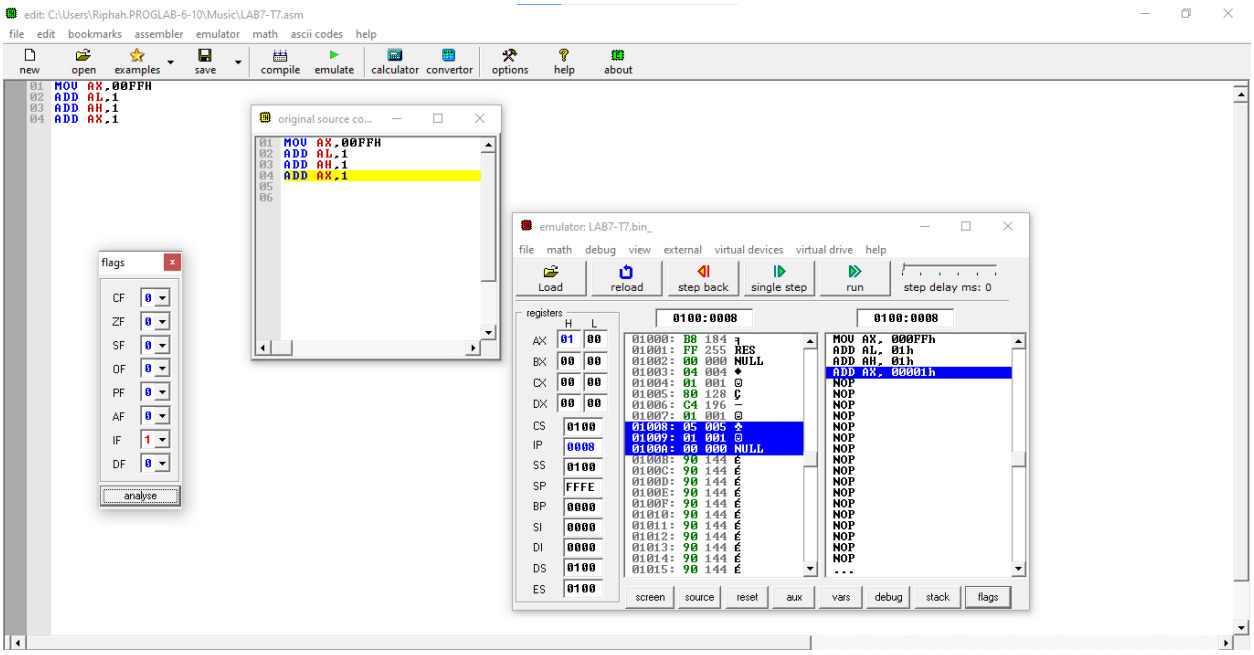
file edit bookmarks assembler emulator math ascii codes help
new open examples save compile emulate calculator convertor options help about
original source co...
flags
CF ZF SF OF PF AF IF DF
analyse
emulator: LAB7-T7.bin_
file math debug view external virtual devices virtual drive help
Load reload step back single step run step delay ms: 0
registers
AX BX CX DX CS IP SS SP BP SI DI DS ES
0100:0005
screen source reset aux vars debug stack flags


edit: C:\Users\Riphah.PROGLAB-6-10\Music\LAB7-T7.asm
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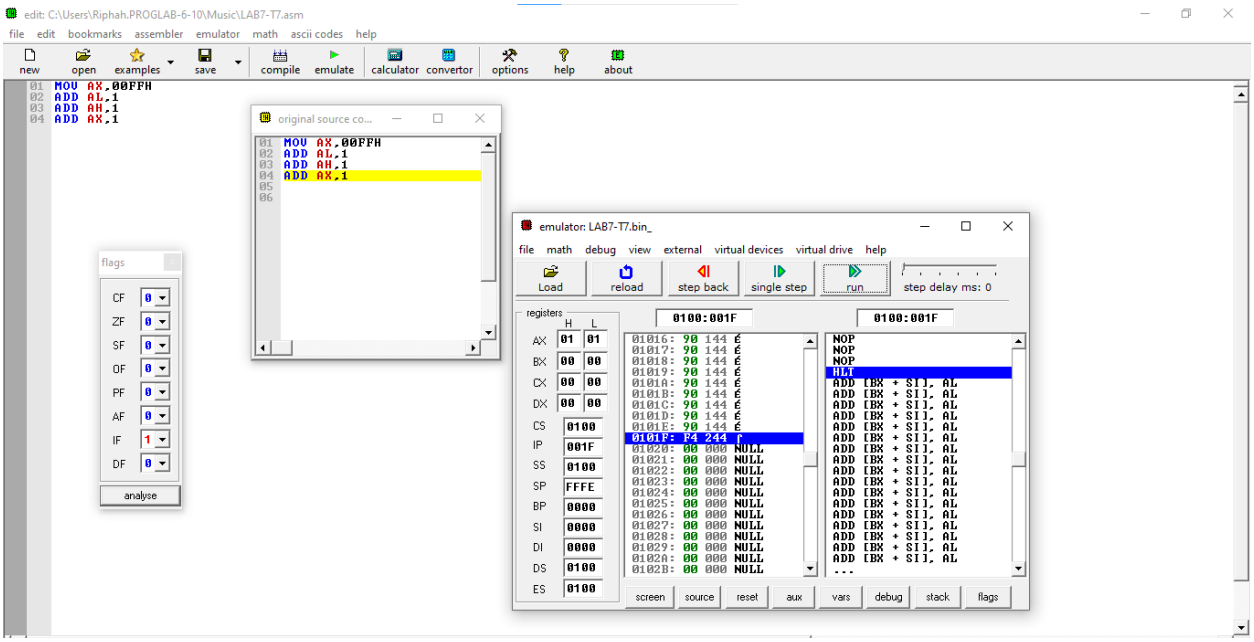
new open examples save compile emulate calculator convertor options help about
01 MOV AX,00FFH
02 ADD AL,1
03 ADD AH,1
04 ADD AX,1
original source co...
flags
CF ZF SF OF PF AF IF DF
analyse
emulator: LAB7-T7.bin_
file math debug view external virtual devices virtual drive help
Load reload step back single step run step delay ms: 0
registers
H L
AX 01 00
BX 00 00
CX 00 00
DX 00 00
CS 0100
IP 0008
SS 0100
SP FFFE
BP 0000
SI 0000
DI 0000
DS 0100
ES 0100
0100:0008
0100:0008
screen source reset aux vars debug stack flags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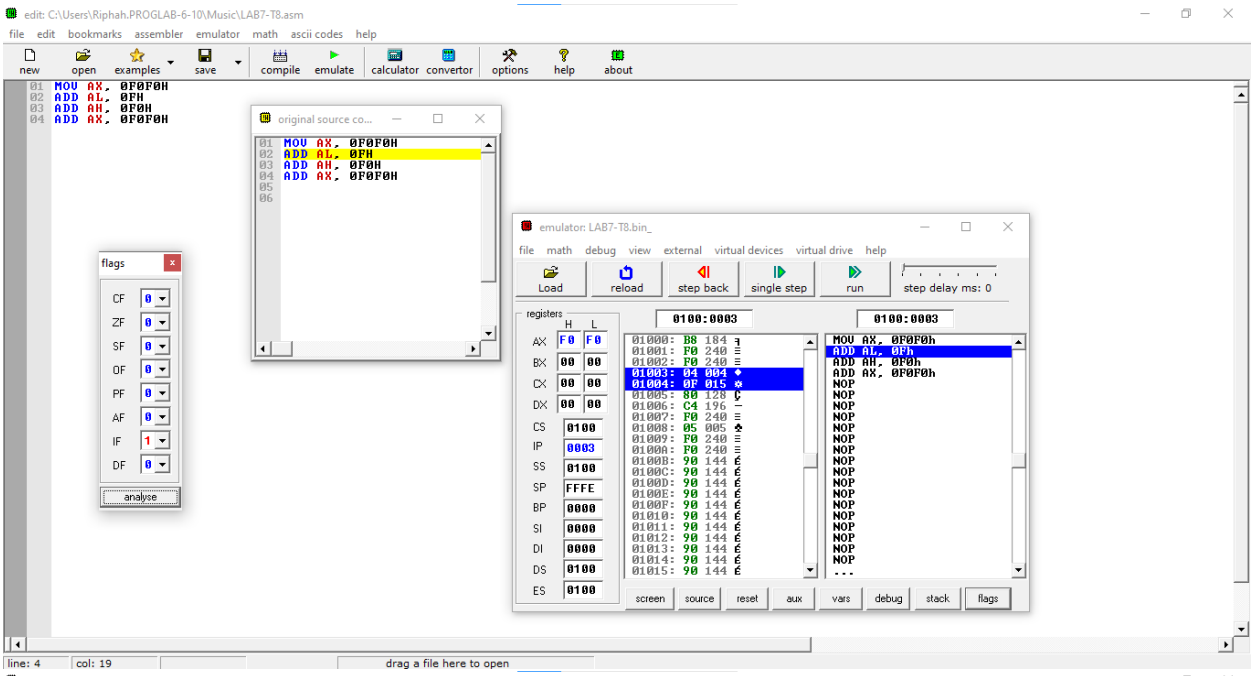
new open examples save compile emulate calculator convertor options help about
01 MOV AX,00FFH
02 ADD AL,1
03 ADD AH,1
04 ADD AX,1
original source co...
flags
CF ZF SF OF PF AF IF DF
analyse
emulator: LAB7-T7.bin_
file math debug view external virtual devices virtual drive help
Load reload step back single step run step delay ms: 0
registers
H L
AX 01 01
BX 00 00
CX 00 00
DX 00 00
CS 0100
IP 001F
SS 0100
SP FFFE
BP 0000
SI 0000
DI 0000
DS 0100
ES 0100
0100:001F
0100:001F
screen source reset aux vars debug stack flags

TASK 08: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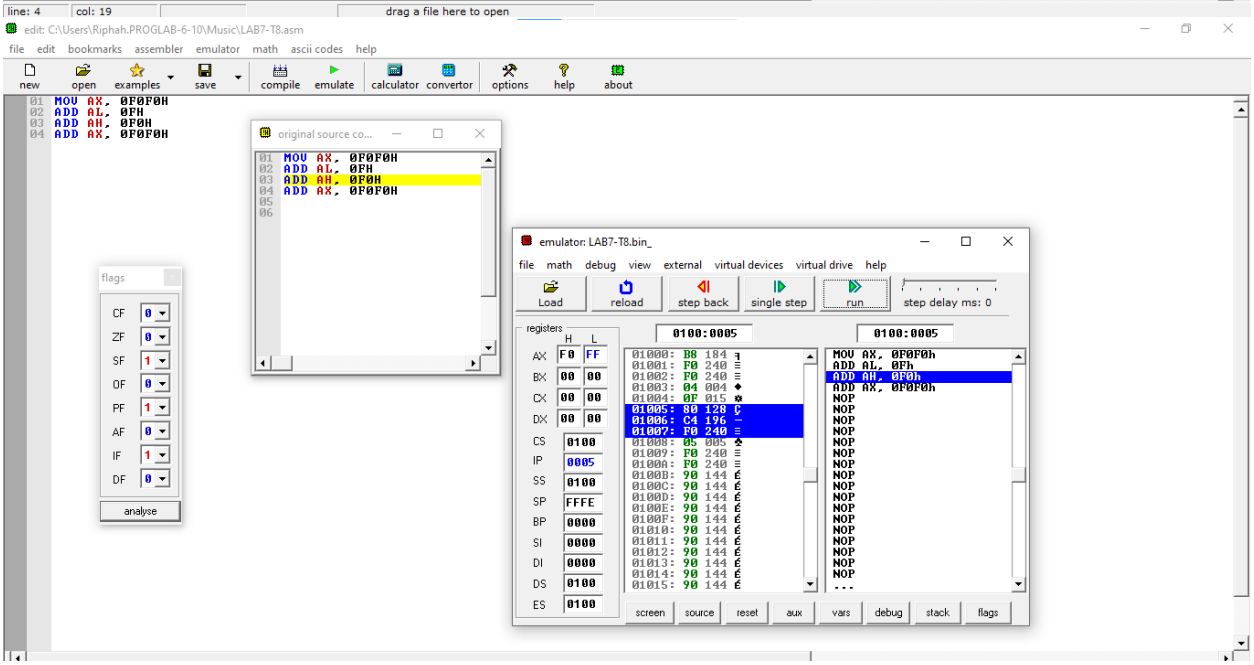
file edit bookmarks assembler emulator math ascii codes help
new open examples save compile emulate calculator convertor options help about
01 MOV AX, 0F0F0H
02 ADD AL, 0FH
03 ADD AH, 0F0H
04 ADD AX, 0F0F0H
original source co...
flags
CF ZF SF OF PF AF IF DF
analyse
emulator: LAB7-T8.bin_
file math debug view external virtual devices virtual drive help
Load reload step back single step run step delay ms: 0
registers
AX BX CX DX CS IP SS SP BP SI DI DS ES
0100:0003
screen source reset aux vars debug stack flags
line: 4 col: 19
drag a file here to open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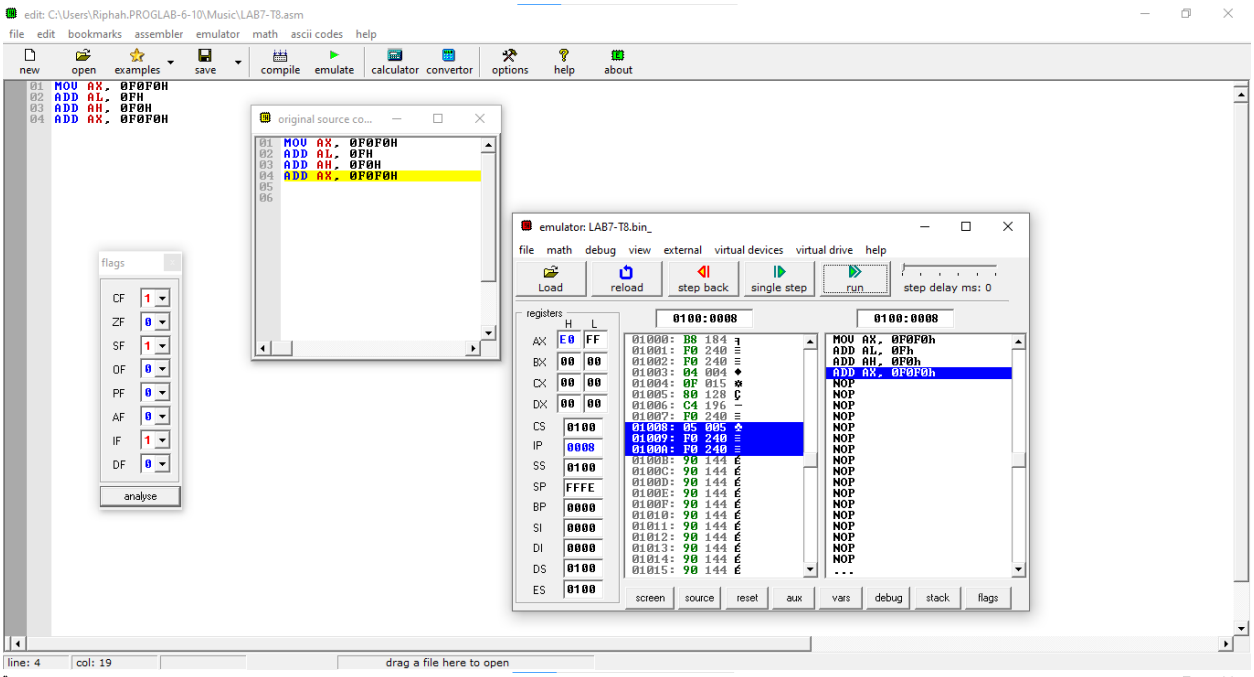
01 MOV AX, 0F0F0H
02 ADD AL, 0FH
03 ADD AH, 0F0H
04 ADD AX, 0F0F0H
original source co...
flags
CF ZF SF OF PF AF IF DF
analyse
emulator: LAB7-T8.bin_
file math debug view external virtual devices virtual drive help
Load reload step back single step run step delay ms: 0
registers
AX BX CX DX CS IP SS SP BP SI DI DS ES
0100:0005
screen source reset aux vars debug stack flags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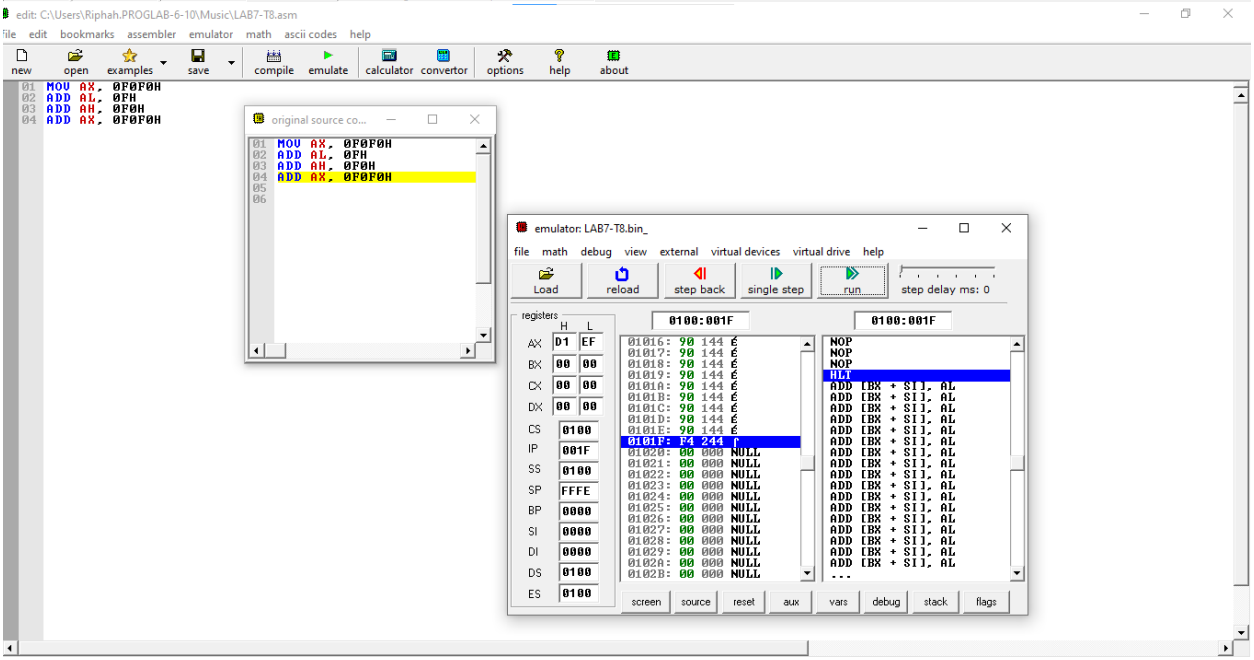
01 MOV AX, 0F0F0H
02 ADD AL, 0FH
03 ADD AH, 0F0H
04 ADD AX, 0F0F0H
original source co...
flags
CF 1
ZF 0
SF 1
OF 0
PF 0
AF 0
IF 1
DF 0
analyse
emulator: LAB7-T8.bin_
file math debug view external virtual devices virtual drive help
Load reload step back single step run step delay ms: 0
registers
H L
AX E0 FF
BX 00 00
CX 00 00
DX 00 00
CS 0100
IP 0008
SS 0100
SP FFFE
BP 0000
SI 0000
DI 0000
DS 0100
ES 0100
0100:0008
0100:0008
screen source reset aux vars debug stack flags
line: 4
col: 19
drag a file here to open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01 MOV AX, 0F0F0H
02 ADD AL, 0FH
03 ADD AH, 0F0H
04 ADD AX, 0F0F0H
original source co...
emulator: LAB7-T8.bin_
file math debug view external virtual devices virtual drive help
Load reload step back single step run step delay ms: 0
registers
H L
AX D1 EF
BX 00 00
CX 00 00
DX 00 00
CS 0100
IP 001F
SS 0100
SP FFFE
BP 0000
SI 0000
DI 0000
DS 0100
ES 0100
0100:001F
0100:001F
screen source reset aux vars debug stack flags