## **WAQAR AHMED**

#### 20P-0750

### LAB-REPORT 6

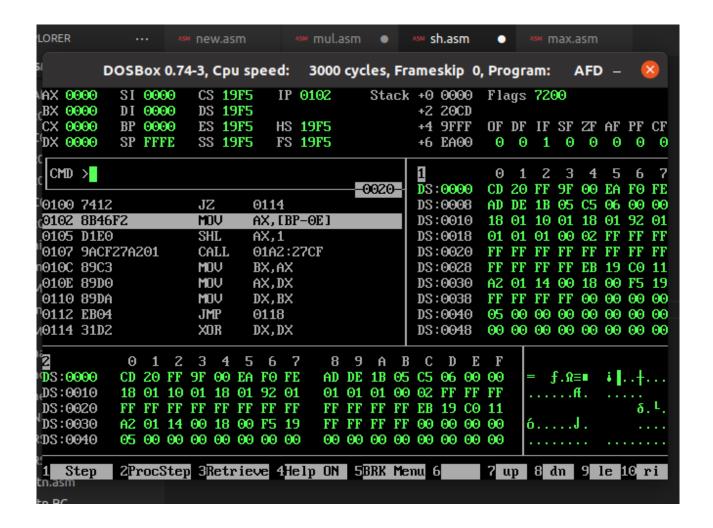
# Shift right

[org 0x0100]

mov ax,2

shr ax,1

mov ax, 0x4c00

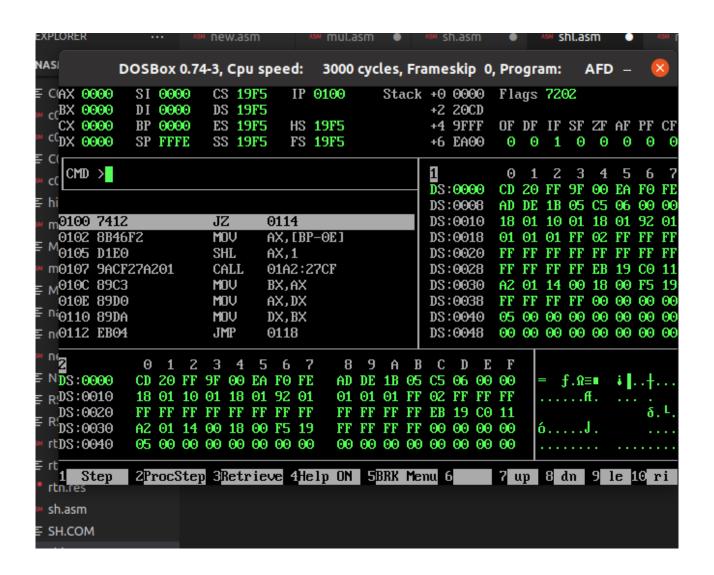


#### Shift left:

[org 0x0100]

mov al,25

shl al,1 mov ax, 0x4c00 int 0x21



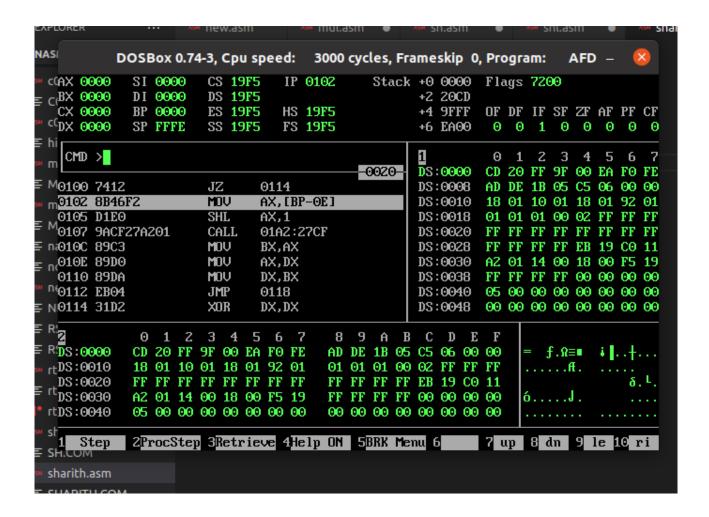
#### **Shift arithmetic:**

[org 0x0100]

mov ax, 5

sar ax,1

mov ax, 0x4c00



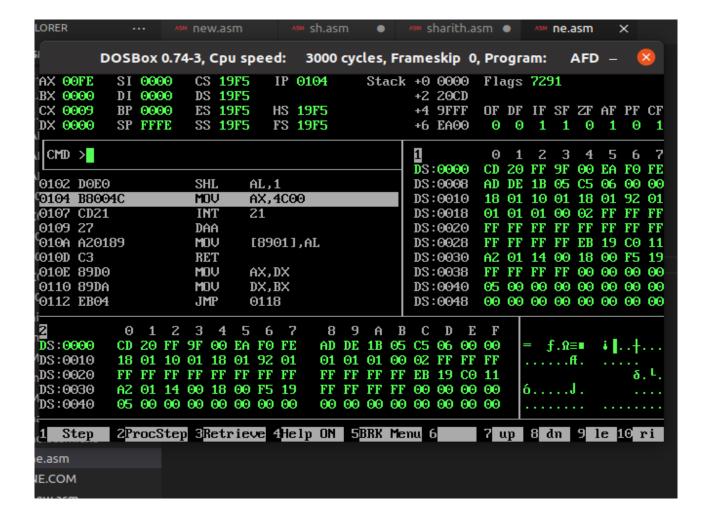
#### Shift arithmetic left:

[org 0x0100]

mov al,210

sal al,1

mov ax, 0x4c00



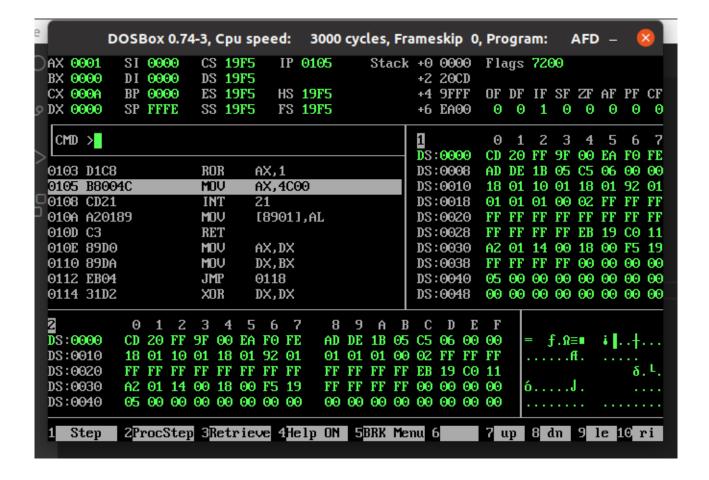
#### Ror:

[org 0x0100]

mov ax, 2

ror ax, 1

mov ax, 0x4c00



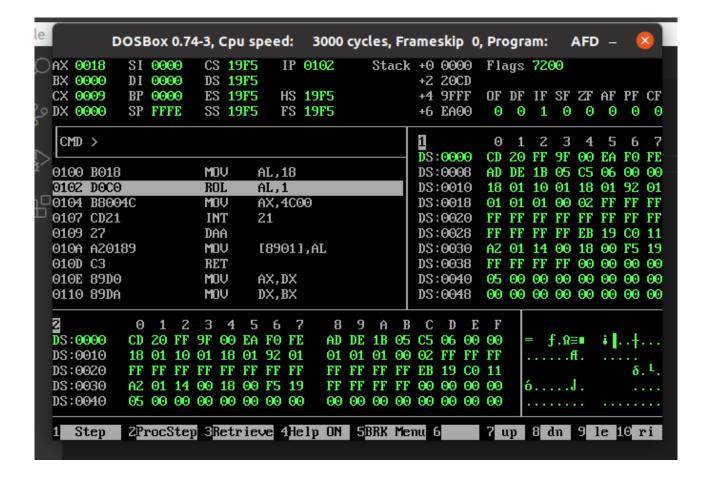
#### Rol:

[org 0x0100]

mov al, 24

rol al,1

mov ax, 0x4c00



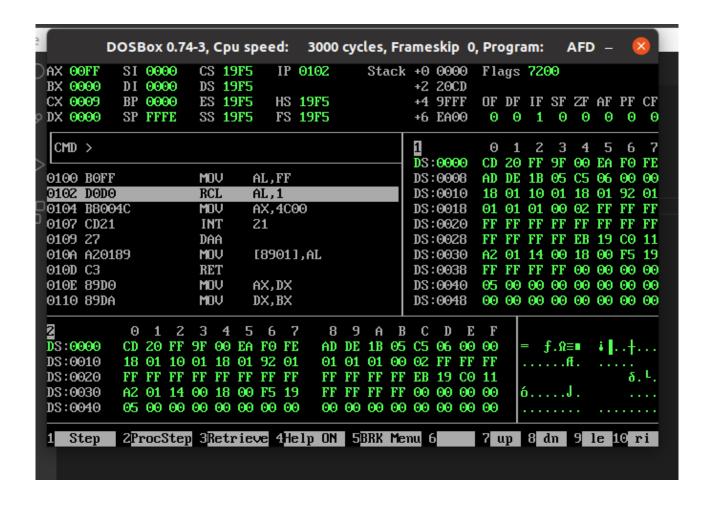
## Rcl:

[org 0x0100]

mov al, 255

rcl al,1

mov ax, 0x4c00



# MUL: [org 0x0100] jmp start multiplicand: db 13 multiplier: db 5 result: dw 0 start: mov cx,4 mov al, [multiplier] mov dl, [multiplicand] lup: shr al,1 jnc skip

add [result], dl

skip:

shl dl, 1

sub cx, 1

jnz lup

mov dx, 0

mov dx, [result]

mov ax, 0x4c00

