

Devin Hardy

Chapter 7 Assignment

7.9.1

1. a.

Mov al, 0D4h

Shr al, 1

0000 1101 0100

0000 0110 1010

1. b.

Mov al, 0D4h

Sar al, 1

0000 1101 0100

0000 0110 1010

2. a.

Mov al, 0D4h

Ror al, 3

Cf 0 0000 1101 0100

Cf 0 0000 0110 1010

2. b.

Mov al, 0D4h

Rol al, 7

Cf 0 0000 1101 0100

Cf 0 1010 0000 0011

3.

Mov dx, 0

mov ax, 222h

mov cx, 100h

mul cx

Will be in DX and AX

DX = 2h AX = 2200h

222h * 100h = 22200

5.

Mov eax, 123400h

Mov edx, 0

Mov ebx, 10h

Div ebx

EDX = 0 EAX = 12340h

123400h * 10h = 12340h

7.9.2

3

Use logical shift to multiply by 16

Shl eax, 4

4

Shr ebx, 2

5