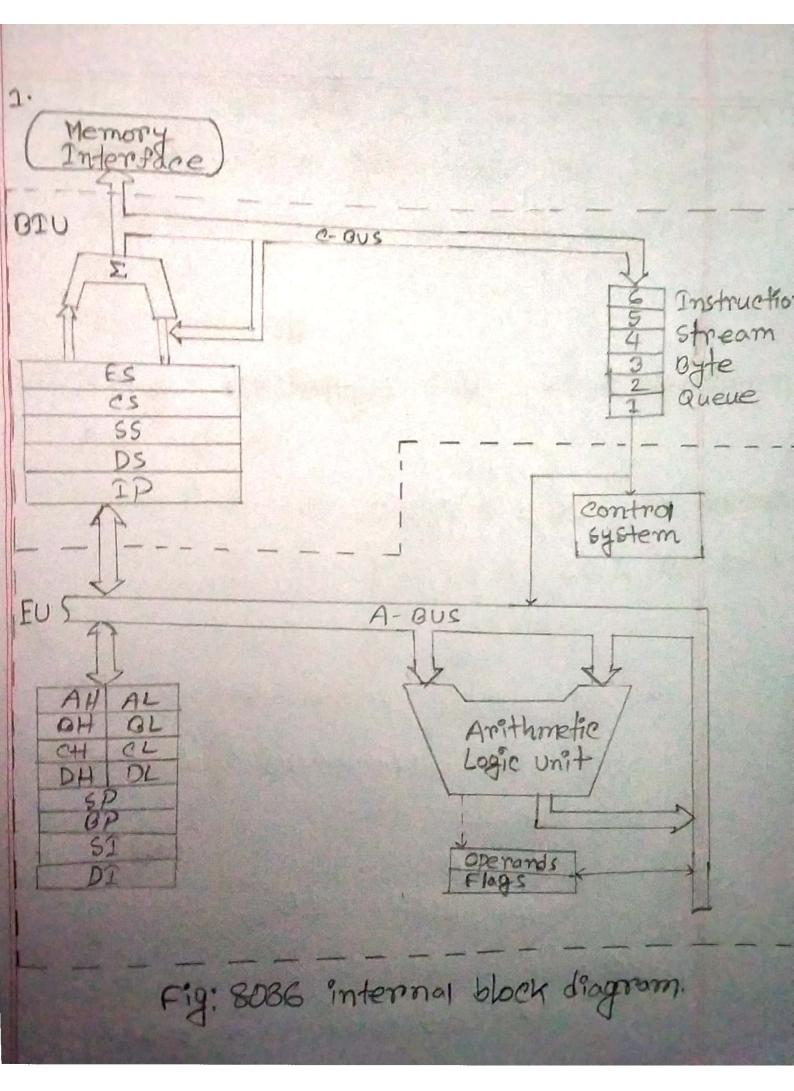
Md. Shafaat Jamil Rokon 17-33084-1 Poll: 5, sec: H



2. Ax and Bx both are 16 bits long data register. Here AH holds the higher bits Att = 011001100. And BL holds lowers bits of BX. OF= 10110110B Xchq exchanges the volue between AH and BL There fore AH=10110110 B = B6 h, Ax= B699h BL=01100110 B=66h, BX=2A66h CX = ABCOh, DX72BBOh ABCOh -2BBOh 50, CX = 8010 h Dx = 2000h

4. AX = 6699 h, GX = 2ABG h MUL AL means Ax=AL(fixed) \* AL 50, AX=99×99  $\frac{99}{561}$   $\frac{16|81}{5}$   $\frac{1}{5}$   $\rightarrow 1$ 56 1 X 5 B71 : AX 25071h Bx = 2AB6h (Unchanged) 5. Ax = ABOGH, Bx = 2AB6h Inc OH increaments the value of OH by 1 BHZ ZA · BH = 2A+1 = 2B 50, GX = 2366 h Ax = ABO9 h (unchanged)

6. Ax = ABO9h, Cx=4

Cx 9s loop counter

the loop will execute for 4 times

AL = AL+2 = O9h+2= OB, Ax=ABOBh

then Cx = 3

Ax = ABODh, Cx = 2

Ax = ABOFL, Cx = 1

Ax = ABIIh, Cx=0 Am.

7. Ax=0002h, Cx=0004h

MUL CX.

Ax=0002h x 0009h = 0008h

ax=0004h

px=0000h

1 1 1 1 1