

Why Div/Mul is Different for Signed & Unrigned :-

=7 x = 7 = 49 Sign Matters. -7 * 7 = 49 7 x 7 = 49

-7/-7 = 1 7/7=1.

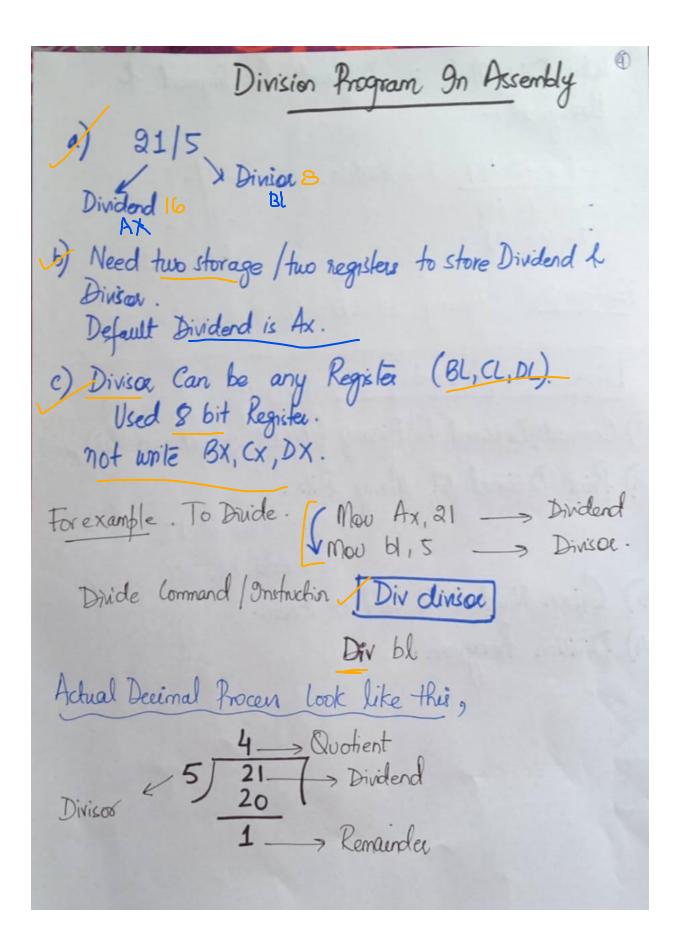
For example Poinary 1111b for Multiplication guen

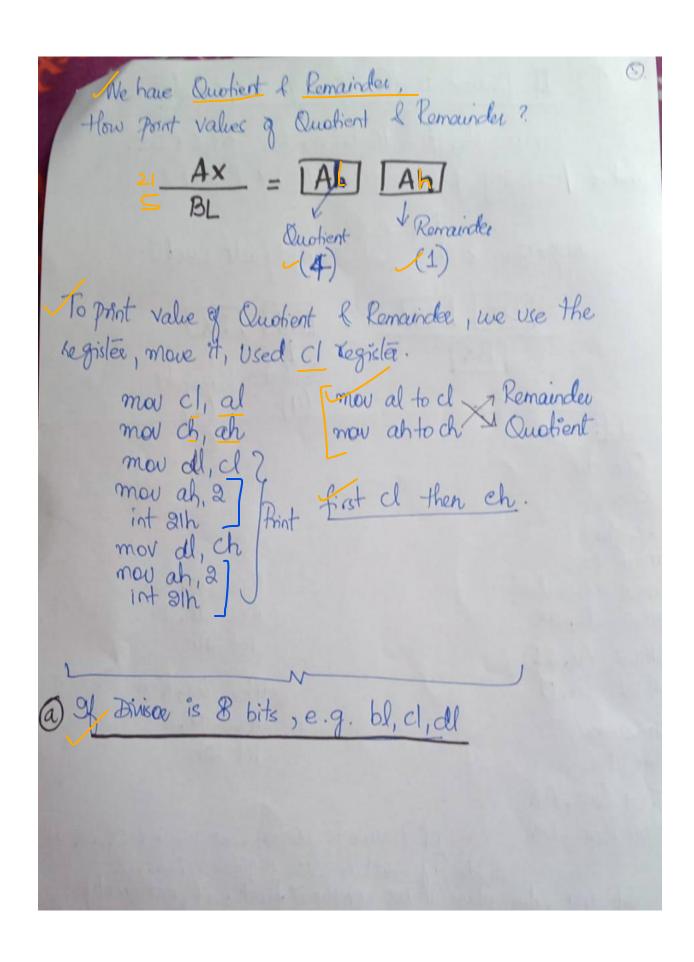
Division In Assembly Importance:

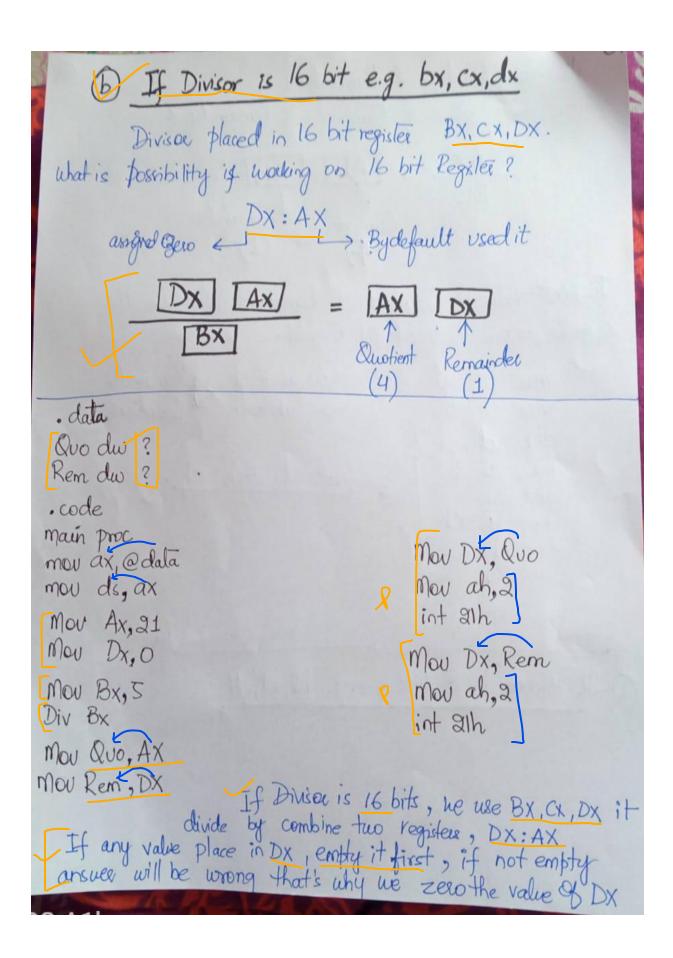
- 1) Convert Decimal to Binary (All Cs Depends on this)
- 2) Print Decimal of Many Bits.
 [e.g. Mov bl, 12

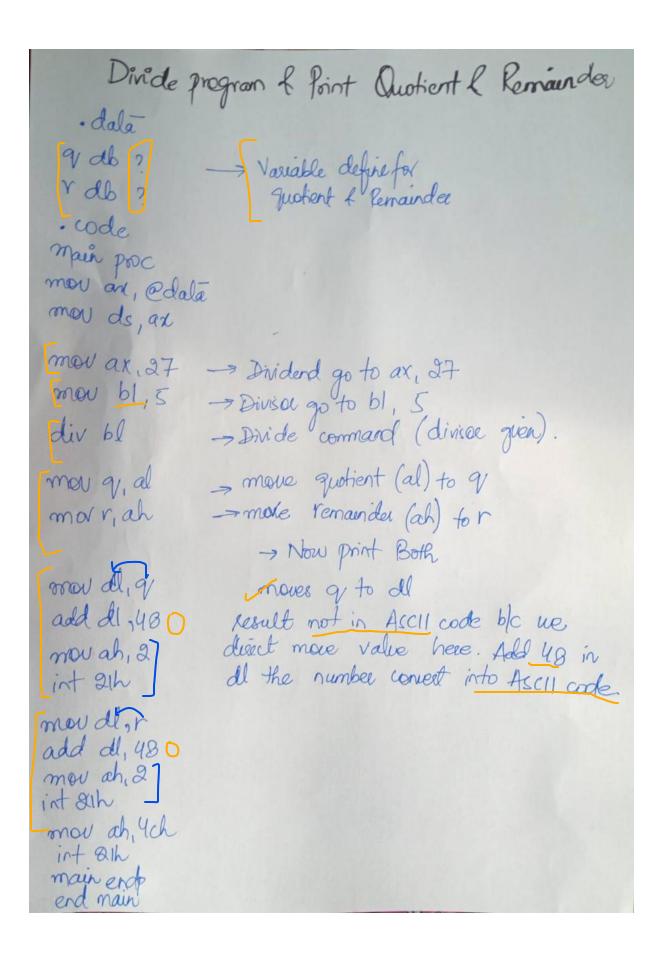
or Add 61, 30

- 3) Given Number is Odd or Even.
- 4) Division foregram.









<u>Get an integer from user and display whether the number</u> is even or odd

```
model small
.stack 100h
.data
ev db 'Even$'
od db 'Odd$'
.code
main proc
mov ax,@data
mov ds,ax
mov ah,1
int 21h
mov bl.2
div bl
cmp ah,0 — 🛩
je IsEven
mov dx,10
mov ah,2
int 21h
mov dx,13
mov ah,2
int 21h___
mov dx,offset od
mov ah,9
int 21h
mov ah,4ch
int 21h
IsEven:
mov dx,10
mov ah,2
int 21h
mov dx,13
mov ah,2
int 21h
mov dx, offset ev
mov ah,9
int 21h
mov ah,4ch
int 21h
main endp
end main
```